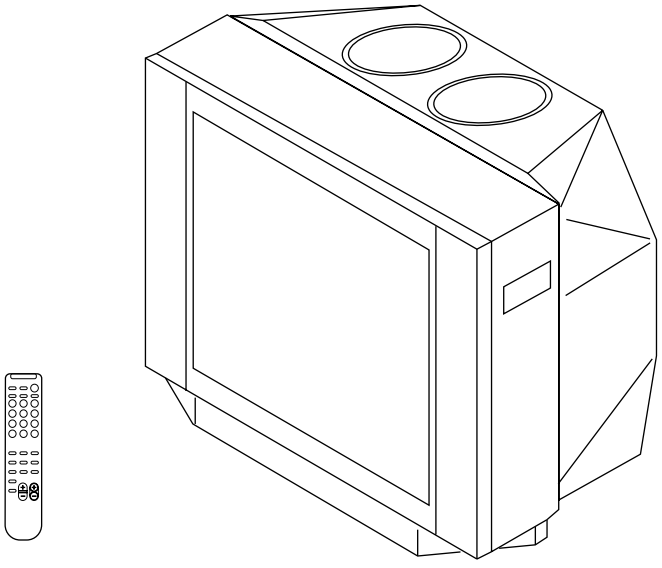
Self Diagnosis
Supported model

SERVICE MANUAL

BG-3S CHASSIS

MODEL	COMMANDER DEST.	CHASSIS NO.	MODEL	COMMANDER DEST.	CHASSIS NO.
KV-XS29M80	RM-954 ME	SCC-U30T-A			
KV-XS29M80	RM-954 JE	SCC-P01E-A			



MICROFILM

TRINITRON ® COLOR TV

SONY ®

SPECIFICATIONS

			Note
Power requirements	110-240 V AC, 50/60 Hz		
Power consumption (W)	Indicated on the rear of the TV		
Television system	B/G, I, D/K, M		
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58		
Channel coverage			
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41		
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41		
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39		
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84		
┐┌ (Antenna)	75-ohm external terminal		
Audio output	8W + 8W		
Number of terminal			
(Video)	Input: 3 Output: 1	Phono jacks; 1 V_{P-P}, 75 ohms	
♪ (Audio)	Input: 3 Output: 1	Phono jacks; 500 mVrms	
(S Video)	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms	
(Headphone)	Output: 1		Minijack
Picture tube	29 inch		
Tube size (cm)	72		Measured diagonally
Screen size (cm)	68		Measured diagonally
Dimensions (w/h/d, mm)	794 × 573 × 517		
Mass (kg)	51		

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

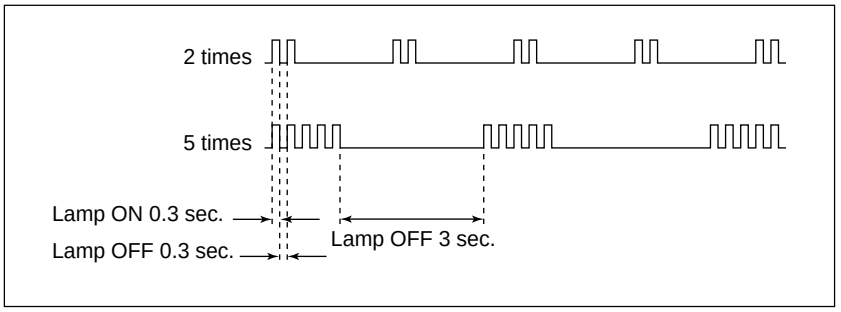
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

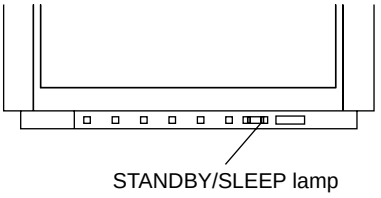
Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F4601 (F)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	• H.OUT Q511 is shorted. (A board) • IC701 is shorted. (C board) • -13V is not supplied. (A board) • IC 503 faulty (A board)	• Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC701 is faulty. (C board) • IC301 is faulty. (A board) • No connection A board to C board.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.
The symptom that is diagnosed first by the microcontroller is displayed on the screen.
Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT





Diagnostic Item	Flash Count*
+B overcurrent/overvoltage Vertical deflection stopped	2 times
White balance failure	5 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

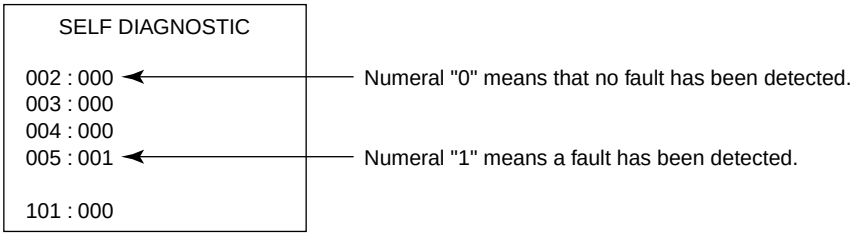
4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel 5 ➡ Sound volume - ➡ Power ON
⇧
Note that this differs from entering the service mode (mode volume +).

Self-Diagnosis screen display


SELF DIAGNOSTIC
002 : 000
003 : 000
004 : 000
005 : 001
101 : 000
Numeral "0" means that no fault has been detected.
Numeral "1" means a fault has been detected.

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

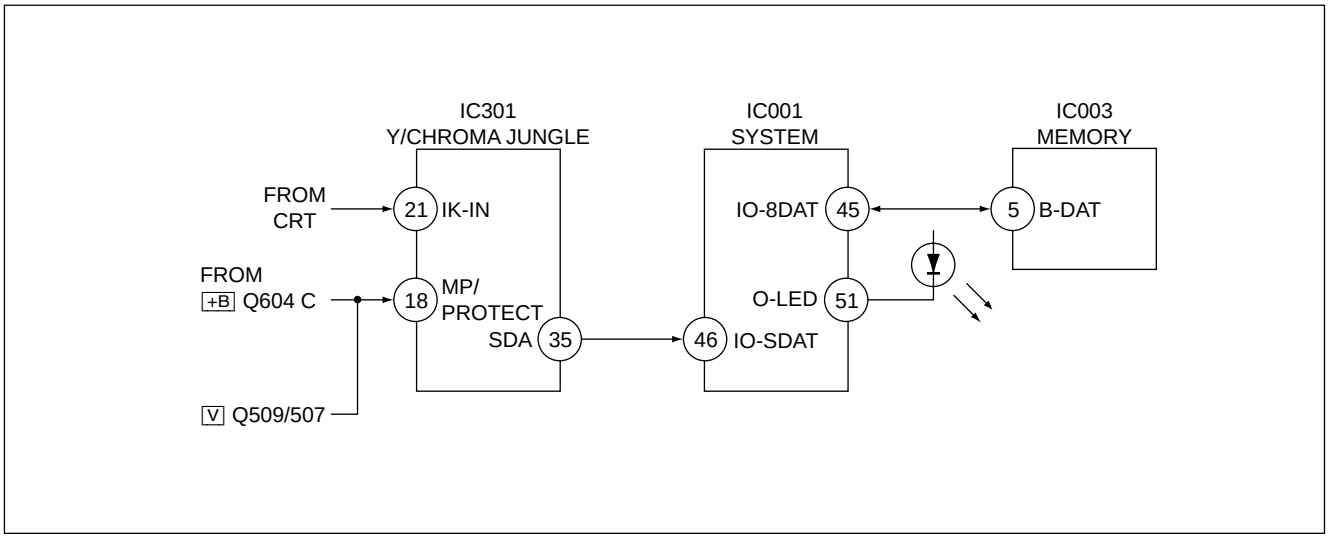
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel 8 ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)	Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.
Vertical deflection stopped	Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.
Vertical deflection overcurrent	Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.
White balance failure	If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture. * (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

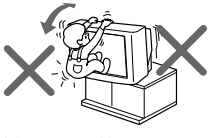
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

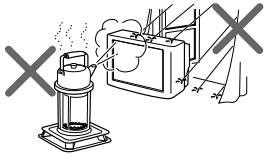
WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC.

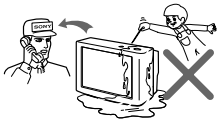
For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.



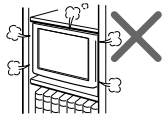
Install the TV in a stable position. Do not allow children to climb onto it.



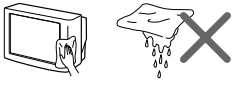
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



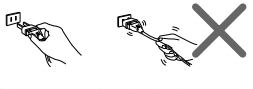
Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.



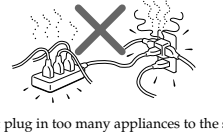
Do not install the TV in a confined space, such as a bookcase or built-in cabinet.
Do not block the ventilation openings of the TV.



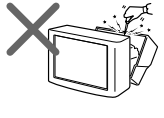
Clean the TV with a dry and soft cloth.
Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.



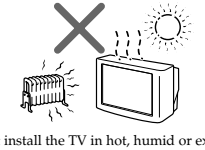
Pull the power cord out by the plug. Do not pull the power cord itself. Disconnect the TV if you are not going to use it for several days.



Do not plug in too many appliances to the same power socket. Do not damage the power cord.



Do not open the cabinet and the rear cover of the TV. Refer servicing to qualified personnel.



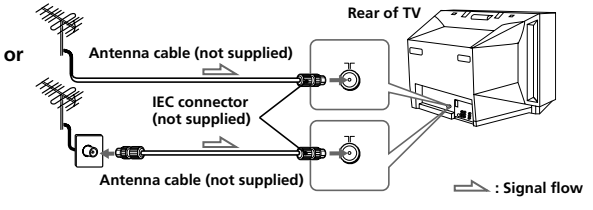
Do not install the TV in hot, humid or excessively dusty places.

Getting Started

Step 1

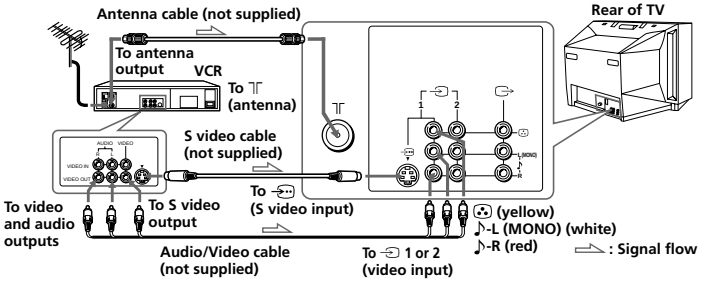
Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.



Connecting a VCR

To watch the video, press ⊜ (see page 12).



CAUTION

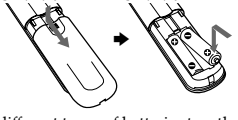
Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Notes

- If you connect a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to ♪-L (MONO) (the white jack).
- If you connect a VCR to the (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- If both (S video input) and 1 (video input) at the rear of your TV are input at the same time, the (S video input) is automatically selected. To view 1 (video input), disconnect the S video cable.
- When no signal is input to the connected video equipment, the TV screen becomes blue.

Step 2

Insert the batteries into the remote

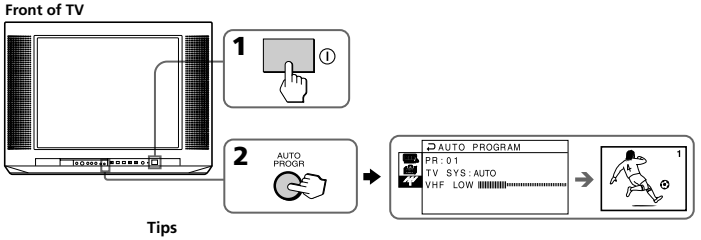


Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically



Tips

- If you want to stop the automatic channel presetting, press MENU twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 26).

Note

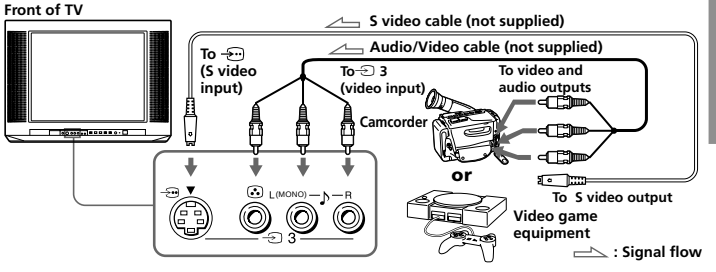
- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system ("TV SYS").

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, DVD, camcorder, video game or stereo system.

To watch the picture of the connected equipment, press (see page 12).

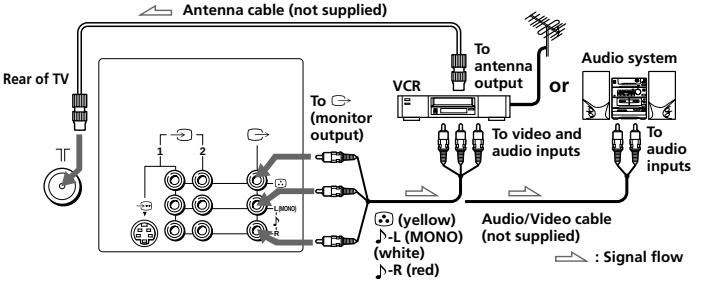
Connecting a camcorder/video game equipment using the (video input) jacks



Notes

- You can also connect video equipment to the 1 or 2 (video input) jacks at the rear of your TV.
- If both (S video input) and 3 (video input) at the front of your TV are input at the same time, the (S video input) is automatically selected. To view 3 (video input), disconnect the S video cable.

Connecting audio/video equipment using the (monitor output) jacks

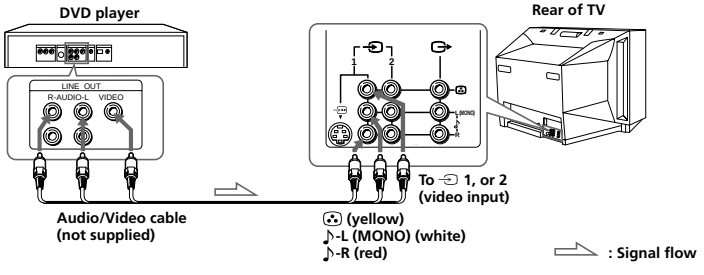


continued

KV-XS29M80
RM-954

Connecting optional components (continued)

Connecting a DVD player using the ⇨ (video input) jacks (JE model only)



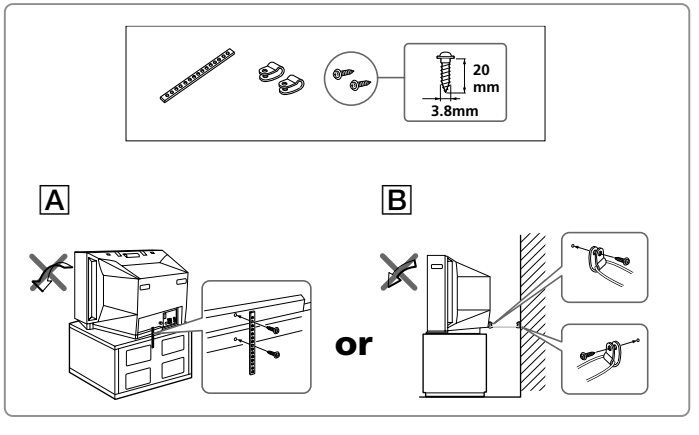
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

A With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

B Put the cord or chain through the clamps to secure the TV against a wall or pillar.

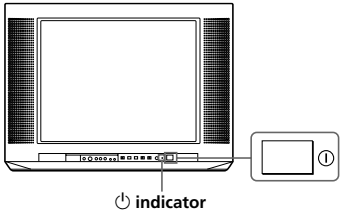


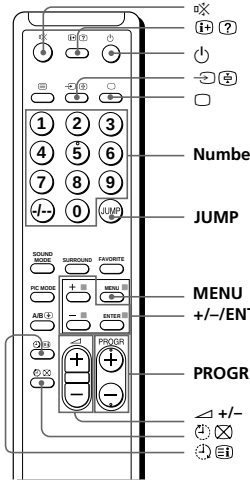
Note

- Use only the supplied screws. Use of other screws may damage the TV.

Watching the TV

This section explains functions used while watching TV. Most operations can be done using the remote.





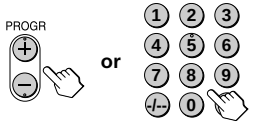
Using Your New TV

1 Press ⏻ to turn on the TV.

When the TV is in the standby mode (the ⏻ indicator on the TV is lit red), press ⏻ on the remote or PROGR +/– on the TV.

2 Press PROGR +/– or number buttons to select the TV program.

For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).



To select a TV program quickly

(1) Press and hold PROGR +/–.
(2) Release PROGR +/– when the desired program number appears.

Note

- When you select a TV program quickly, the picture may be disrupted. This does not indicate a malfunction.

continued

Additional tasks

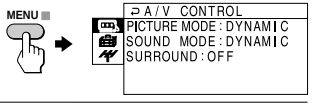
To	Do this
Turn off temporarily	Press ⏻. The ⏻ indicator on the TV lights up red.
Turn off completely	Press ⏻ on the TV.
Adjust the volume	Press +/–.
Mute the sound	Press 🔇.
Watch the video input (VCR, camcorder, etc.)	Press ⏎ to select "VIDEO 1", "VIDEO 2". To return to the TV program, press 📺.
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press ⓘ.

Changing the menu language (For JE model)

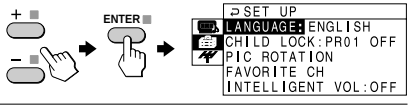
You can change the menu language as well as the on-screen language.

For details on how to use the menu, see "Introducing the menu system" on page 19.

1 Press MENU.

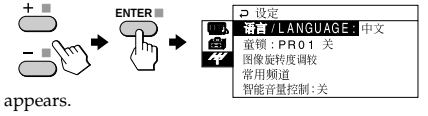


2 Press + or – to select the "SET UP" icon (🔧), then press ENTER.



3 Make sure "LANGUAGE" is selected, then press ENTER.

4 Press + or – to select the desired language (e.g, "中文"), then press ENTER.



The selected menu language appears.

To return to the normal screen

Press MENU.

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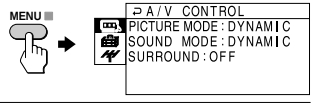
Changing the menu language (For ME model)

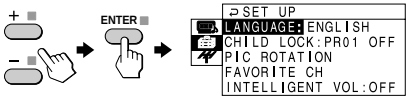
You can change the menu language as well as the on-screen language.

For details on how to use the menu, see "Introducing the menu system" on page 14.

1 Press MENU.

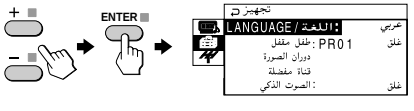


2 Press + or – to select the "SET UP" icon (), then press ENTER.



3 Make sure "LANGUAGE" is selected, then press ENTER.

4 Press + or – to select the desired language (e.g, " عربي "), then press ENTER.



The selected menu language appears.

To return to the normal screen

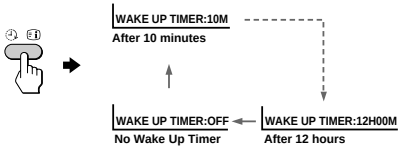
Press MENU.

Using Your New TV

Setting the Wake Up timer

1 Press until the desired period of time appears.

The Wake Up timer starts immediately after you have set it.



2 Select the TV program or video mode you want to display when you wake up.

3 Press or set the Sleep timer if you want the TV to turn off automatically.

The indicator on the TV lights up orange.

To cancel the Wake Up timer

Press until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

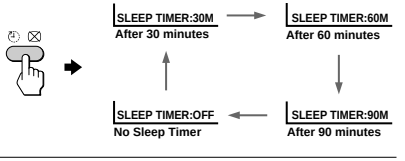
Note

- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



To cancel the Sleep timer

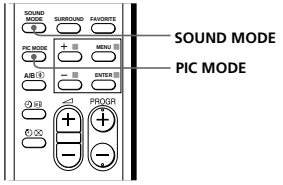
Press until "SLEEP TIMER: OFF" appears or turn the TV off.

Using Your New TV

continued

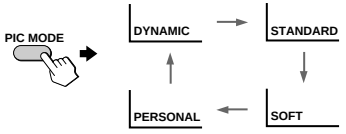
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in "PERSONAL" option.



Selecting the picture mode

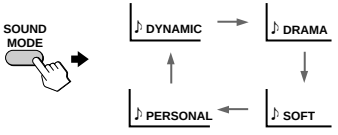
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
"DYNAMIC"	receive high contrast pictures.
"STANDARD"	receive normal contrast pictures.
"SOFT"	receive mild pictures.
"PERSONAL"	receive the last adjusted picture setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 21).

Selecting the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



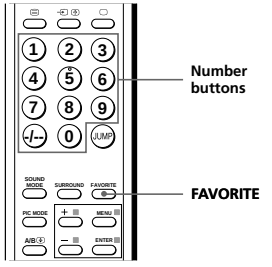
Select	To
"DYNAMIC"	listen to dynamic and clear sound that emphasizes the low and high tones.
"DRAMA"	listen to sound that emphasizes voice and high tones.
"SOFT"	receive soft sound.
"PERSONAL"	receive the last adjusted sound setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 21).

Tip

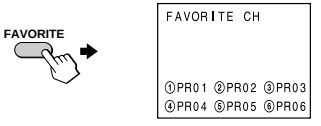
- You can also set the picture and sound modes using the menu (see "Changing the "A/V CONTROL" setting" on page 21).

Viewing your favorite channels

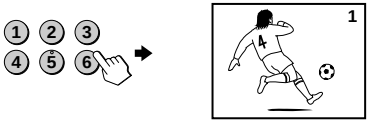
You can display and select six of your favorite channels directly from your TV screen.



1 Press FAVORITE.



2 Press the number button from 1 to 6 to select the desired channel.



Tip

- To program your favorite channels, see "Programming your favorite channels" on page 24.

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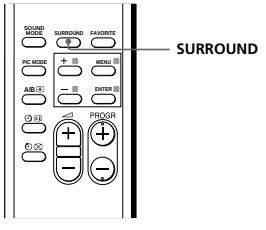
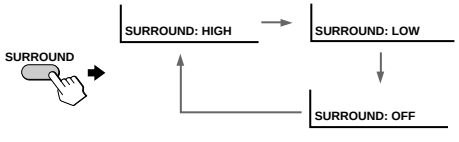
Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



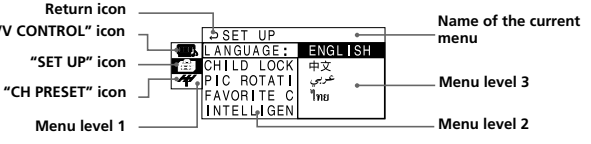
Select	To
"HIGH"	listen to sound that spreads out over a large area, giving the feeling of being at a concert hall.
"LOW"	listen to the sound that gives the feeling of being at a live concert.
"OFF"	turn off the surround sound.

The surround of your TV is categorized as TruSurround.

TruSurround™ is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents.

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. Here's an overview of the menu system.



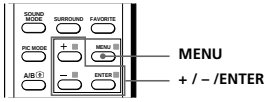
Level 1	Level 2	Level 3/Function
"A/V CONTROL"	"PICTURE MODE"	Select the picture mode. "DYNAMIC" → "STANDARD" → "SOFT" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option. "PICTURE"→ "COLOR"→"BRIGHT"→"HUE"→"SHARP"
	"SOUND MODE"	Select the sound mode. "DYNAMIC" → "DRAMA" → "SOFT" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option. "BASS"→"TREBLE"→"BALANCE"→"BBE"*
	"SURROUND"	Select the surround mode. "HIGH"→ "LOW"→"OFF"
"SET UP"	"LANGUAGE"	Change the menu language. "ENGLISH"– " 中文 " (Chinese)/ عربي (Arabic)/ ไทย (Thai)
	"CHILD LOCK"	Block the channel independently.
	"PIC ROTATION"	Adjust the picture position.
	"FAVORITE CH"	Program favorite channels.
	"INTELLIGENT VOL"	Adjust volume automatically.
"CH PRESET"	"AUTO PROGRAM"	Preset channels automatically.
	"MANUAL PROGRAM"	Preset channels manually.
	"SKIP"	Skip unwanted or unused program positions.
	"TV SYS"	Select the TV system. "B/G"→ "I"→ "D/K"→ "M"
	"COL SYS"	Select the color system. "AUTO"→ "PAL"→"SECAM"→"NTSC3.58"→"NTSC4.43"

* The "BBE" is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

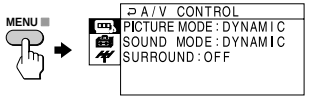
continued

How to use the menu

You can use the buttons on the remote and on the TV as well to display the menu and adjust the settings.



1 Press MENU to display the menu.



2 Press + or – to select the desired item.

3 Press ENTER to confirm your option and go to the next menu level.

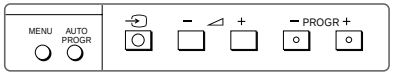
Other menu operations

To	Press
Adjust the setting value	+/–
Return to the previous menu level	ENTER
Cancel the menu	MENU

Tips

- To return from Menu Level 2 to Level 1, press + / – to select the return icon (⮌), then press ENTER.
- You can also use the buttons on the TV for menu operations. ◿ +/– work as + /– on the remote and ⏎ works as ENTER on the remote.

Front of TV

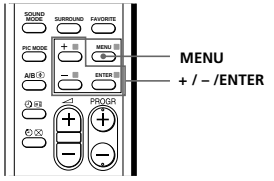


Notes

- If more than 60 seconds elapse between entries, the menu screen automatically disappears.
- With better resolution of the on-screen fonts, interlace scanning might cause flickers on some parts of the menu screen. This does not indicate a malfunction.

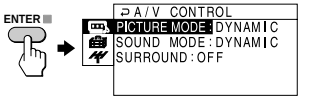
Changing the "A/V CONTROL" setting

The "A/V CONTROL" menu allows you to change the picture and sound settings.

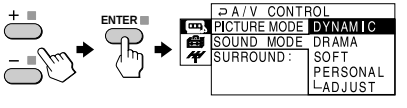


1 Press MENU.

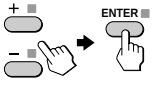
2 Make sure the "A/V CONTROL" icon ( ) is selected, then press ENTER.



3 Press + or – to select either "PICTURE MODE", "SOUND MODE", or "SURROUND", then press ENTER.



4 Press + or – to select the desired option, then press ENTER.



For	Select
"PICTURE MODE"	either "DYNAMIC", "STANDARD", "SOFT", "PERSONAL"*, or "ADJUST".
"SOUND MODE"	either "DYNAMIC", "DRAMA", "SOFT", "PERSONAL"*, or "ADJUST".
"SURROUND"	either "HIGH", "LOW", or "OFF".

* When the "PERSONAL" mode is selected, the last adjusted picture and sound settings from the "ADJUST" option are received (see page 22).

Tip

- For details on the options under "PICTURE MODE", "SOUND MODE" and "SURROUND", see page 14 and 16 respectively.

To return to the normal screen

Press MENU.

continued

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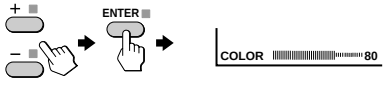
Changing the "A/V CONTROL" setting (continued)

Adjusting the "ADJUST" options under "PICTURE MODE"

1 Press + or – to select the desired item (e.g., "COLOR"), then press ENTER.



2 Adjust the value according to the following table, then press ENTER.

For	Press – to	Press + to
"PICTURE"	decrease picture contrast	increase picture contrast
"COLOR"	decrease color intensity	increase color intensity
"BRIGHT"	darken the picture	brighten the picture
"HUE"*	increase red picture tones	increase green picture tones
"SHARP"	soften the picture	sharpen the picture

* You can adjust "HUE" for the NTSC color system only.

3 Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Adjusting the "ADJUST" options under "SOUND MODE"

1 Press + or – to select the desired item (e.g., "BALANCE"), then press ENTER.

2 Adjust the value according to the following table, then press ENTER.

For	Press – to	Press + to
"BASS"	decrease the bass	increase the bass
"TREBLE"	decrease the treble	increase the treble
"BALANCE"	increase the left speaker's volume	increase the right speaker's volume
"BBE"	select "HIGH" for higher enhancement of sound clarity; select "LOW" for lower enhancement of sound clarity; select "OFF" to turn off the BBE sound	

3 Repeat the above steps to adjust other items.

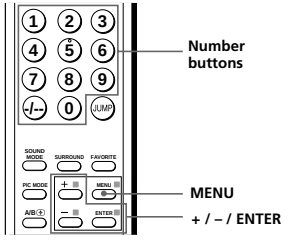
The adjusted settings will be received when you select "PERSONAL".

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 19.

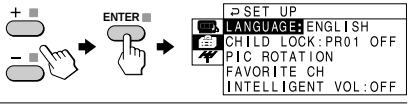
Changing the "SET UP" setting

The "SET UP" menu allows you to change the menu language, block channels, adjust the picture position, program your favorite channels and adjust volume automatically.

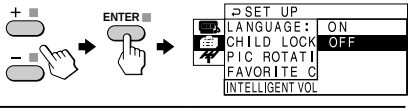


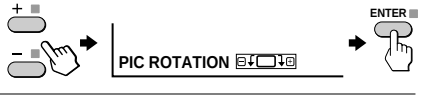
1 Press MENU.

2 Press + or – to select the "SET UP" icon (🔧), then press ENTER.



3 Press + or – to select the desired option (e.g., "INTELLIGENT VOL"), then press ENTER.



Select	To
"LANGUAGE"	Change the menu language (see "Changing the menu language" on page 12).
"CHILD LOCK"	Prevent children from watching certain channels (see "Blocking the channels ("CHILD LOCK")" on page 25).
"PIC ROTATION"	Adjust the picture position when it is not aligned to the TV screen. Press + or – to adjust the picture position, then press ENTER. 
"FAVORITE CH"	Program channels for direct selection (see "Programming your favorite channels" on page 24).
"INTELLIGENT VOL"	Adjust the volume of each TV program automatically. Press + or – to select "ON", then press ENTER. To turn off the "Intelligent Volume" function, select "OFF", then press ENTER.

To return to the normal screen.

Press MENU.

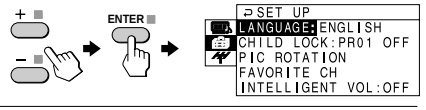
continued

Programming your favorite channels

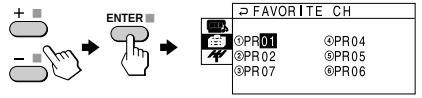
The "FAVORITE CH" feature enables you to program up to six channels for direct selection.

1 Press MENU.

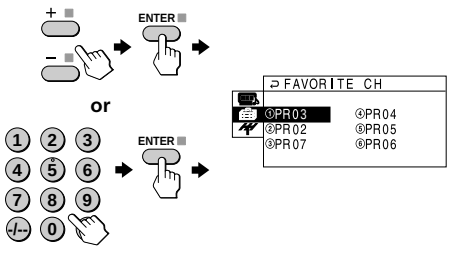
2 Press + or – to select the "SET UP" icon (), then press ENTER.



3 Press + or – to select "FAVORITE CH", then press ENTER twice.



4 Press + or –, or number buttons to program the desired channel (e.g., "PR03"), then press ENTER.



5 To continue programming other favorite channels, press + or – and then press ENTER. After that, repeat step 4.

To return to the normal screen

Press MENU.

Tip

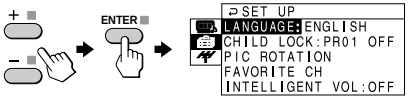
- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 19.

Blocking the channels ("CHILD LOCK")

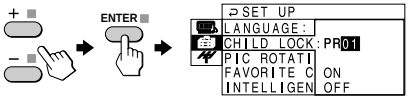
You can prevent your children from watching certain channels by using the "CHILD LOCK" feature.

1 Press MENU.

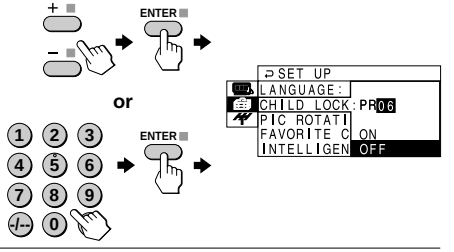
2 Press + or – to select the "SET UP" icon (), then press ENTER.



3 Press + or – to select "CHILD LOCK", then press ENTER.



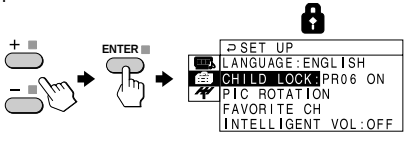
4 Press + or –, or number buttons to select the desired channel, then press ENTER.



5 Press + or – to select ON, then press ENTER.

The lock symbol ( ) appears on the screen.

To unlock the channel, select "OFF".



6 To continue locking other channels, press ENTER and then repeat step 4 to 5.

To return to the normal screen

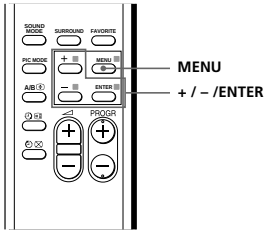
Press MENU.

Note

- If you preset a locked channel, that particular channel will be unlocked automatically (see page 26).

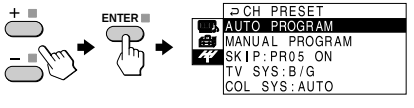
Changing the Channel Preset ("CH PRESET") setting

The "CH PRESET" menu allows you to adjust the setup of your TV. For example, you can receive a channel with a weak signal that fails to be tuned in by automatic presetting.

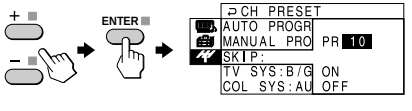


1 Press MENU.

2 Press + or – to select the "CH PRESET" icon (), then press ENTER.



3 Press + or – to select the desired option (e.g., "SKIP"), then press ENTER.



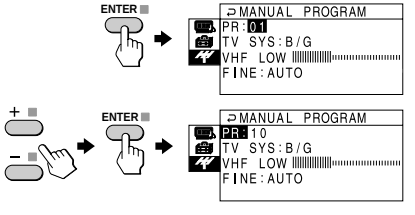
Select	To
"AUTO PROGRAM"	preset channels automatically.
"MANUAL PROGRAM"	preset channels manually. See "Presetting channels manually" on page 27.
"SKIP"	skip unwanted or unused program numbers. 1 Press + or – until the unused or unwanted program number appears, then press ENTER. 2 Press + or – to select "ON", then press ENTER. To put the skipped program number back on, select "OFF", then press ENTER.
"TV SYS"	select the TV system. See "Presetting channels manually" on page 27.
"COL SYS"	select the color system. Normally, set this to "AUTO".

Presetting channels manually

1 After selecting "MANUAL PROGRAM", select the program number to which you want to preset a channel.

(1) Make sure "PR" is selected , then press ENTER.

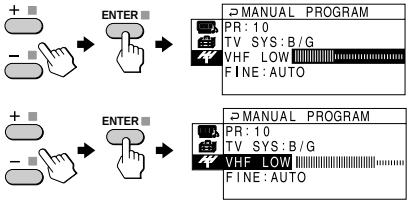
(2) Press + or – until the program number you want to preset (e.g., program number "10") appears on the menu, then press ENTER.



2 Select the desired channel.

(1) Press + or – to select either "VHF LOW", "VHF HIGH" or "UHF", then press ENTER.

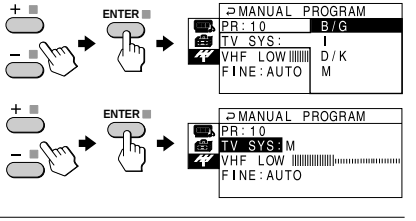
(2) Press + or – until the desired channel picture appears on the TV screen, then press ENTER.



3 If the sound of the desired channel is abnormal, select the appropriate TV system.

(1) Press + or – to select "TV SYS", then press ENTER.

(2) Press + or – until the sound becomes normal (e.g., "M"), then press ENTER.

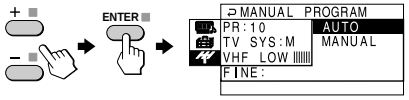


continued

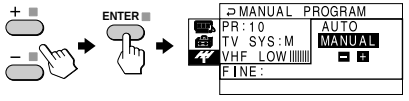
Changing the Channel Preset ("CH PRESET") setting (continued)

4 If you are not satisfied with the picture and sound quality, you may improve them by using fine tuning.

(1) Press + or – to select "FINE", then press ENTER.

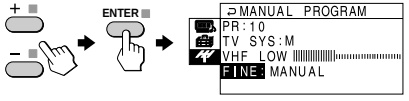


(2) Press + or – to select "MANUAL", then press ENTER.



(3) Press + or – until the picture and sound quality are optimal, then press ENTER.

The + or – icon on the menu flashes while tuning.



To return to the normal screen

Press MENU.

Notes

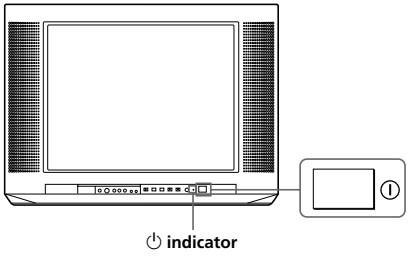
- If you preset a locked channel, that particular channel will be unlocked automatically (see page 25).
- The TV system ("TV SYS") and the fine tuning ("FINE") settings are memorized for each program number.

Additional Information

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the ⏻ indicator flashes red. The number of times the ⏻ indicator flashes indicates the possible causes.

Front of TV



1 Check that the red flashes of the ⏻ indicator is about 3 seconds per interval.

2 Count the number of times the ⏻ indicator flashes.

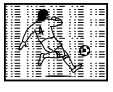
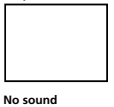
3 Press ⏻ (main power) to turn off your TV.

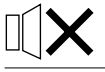
4 Inform your nearest Sony service center about the number of times the ⏻ indicator flashes.
Be sure to note the model name and serial number located on the rear of your TV.

KV-XS29M80
RM-954

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .

Symptom	Possible cause	Solutions	Page
Snowy picture 	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR and on the wall.	4
	• Channel presetting is inappropriate or incomplete.	• Display the “CH PRESET” menu and select “MANUAL PROGRAM” to preset the channel again.	26
Noisy sound	• The antenna type is inappropriate.	• Check the antenna type (“VHF”/“UHF”). Contact a Sony dealer for advice.	–
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Signal transmission is low.	• Try using a booster.	–
Distorted picture **Noisy sound**	• Broadcast signals are too strong.	• Turn off or disconnect the booster if it is in use.	–
Good picture **Noisy sound**	• The TV system setting or channel presetting is inappropriate or incomplete.	• If the sound of all the channels are noisy, display the “CH PRESET” menu and check the TV system (“TV SYS”) setting, then select “AUTO PROGRAM” to preset the channels again. • If the sound of some channels are noisy, select the channel, then display the “CH PRESET” menu and select the appropriate TV system (“TV SYS”).	26 26
	• The selected sound is inappropriate.	• If the sound of some channels are noisy, select the channel, then press A/B to select the main sound (Not used for these models).	17
No picture  **No sound**	• The power cord, antenna or VCR is not connected.	• Check the power cord, antenna and the VCR connections.	4
	• The TV is not turned on.	• Press ⏻ (power). • Press ① (main power) on the TV to turn off the TV for about five seconds, then turn it on again.	12 11

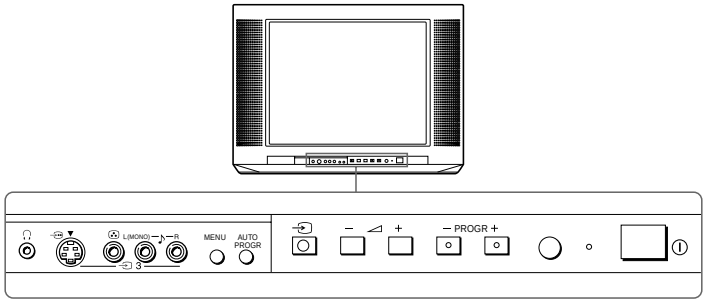
Symptom	Possible cause	Solutions	Page
Good picture **No sound** 	• The volume level is too low.	• Press + to increase the volume level.	12
	• The sound is muted.	• Press 🔇 to cancel the muting.	12
	• Broadcast signal has a transmission problem.	• Press A/B until a good sound is heard (Not used for these models).	17
Dotted lines or stripes	• There is local interference from cars, neon signs, hair dryers, power generators, etc.	• Do not use a hair dryer or other equipment near the TV. • Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice.	– –
Double images or “ghosts”	• Broadcast signals are reflected by nearby mountains or buildings.	• Use a highly directional antenna. • Use the fine tuning (“FINE”) function.	– 28
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Use of a booster is inappropriate.	• Turn off or disconnect the booster if it is in use.	–
No color	• The color level setting is too low.	• Display the “A/V CONTROL” menu and select “ADJUST” of “PICTURE MODE”, then adjust the “COLOR” level.	21
	• The color system setting is inappropriate.	• Display the “CH PRESET” menu and check the color system (“COL SYS”) setting (usually set this to “AUTO”).	26
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
Abnormal color patches	• The magnetic disturbance from external speakers or other equipment, or the direction of the earth’s magnetic field may affect the TV.	• Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press ① (main power) on the TV to turn off the TV for about five minutes, then turn it on again.	–
TV cannot receive stereo broadcast signal. (Not used for these models)	• The stereo reception setting is inappropriate.	• Press A/B until “AUTO” appears on the screen.	17

continued

Symptom	Possible cause	Solutions	Page
Stereo broadcast sound switches on and off or is distorted. **or** **The sound switches between monaural and stereo frequently. (Not used for these models)**	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR and on the wall.	4
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Broadcast signal has a transmission problem.	• Press A/B until a good sound is heard.	17
Picture slant	• The terrestrial magnetism affects your TV set.	• Display the "SET UP" menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen.	23
Lines moving across the TV screen.	• There is interference from external sources, e.g., heavy machineries, nearby broadcast station.	• Use the fine tuning ("FINE") function.	28
The ⏻ indicator on your TV flashes red a number of times between 3-second intervals.	• Your TV may need service.	• Contact your nearest Sony service center.	29
TV cabinet creaks.	• Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.	—	–
A "boom" sound is heard when the TV is turned on.	• The TV's demagnetizing function is working. This does not indicate a malfunction.	—	–

Identifying parts and controls

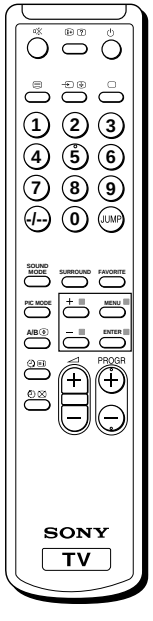
Front panel



Button	Function	Page
AUTO PROGR	Preset channels automatically.	5
⏻	Turn off completely or turn on the TV.	11
PROGR +/–	Select program number.	11
◿ +/–	Adjust volume.	12
⇨	Select TV or video input.	12
MENU	Display the menu.	20
🎧	Headphones jack.	–

continued

Remote control



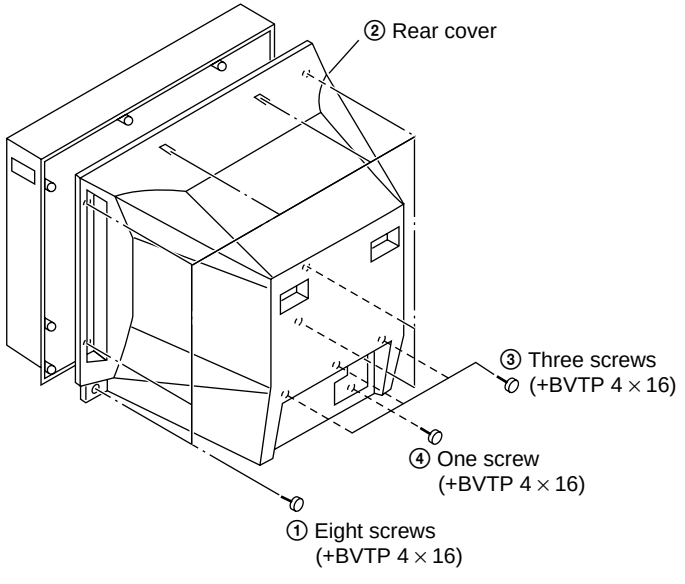
Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations

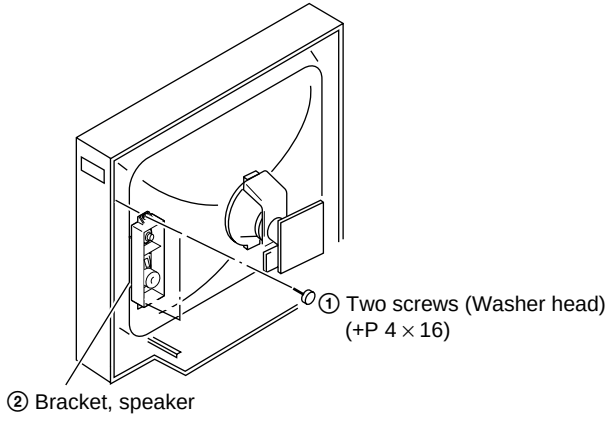
Button	Function	Page
PROGR +/–	Select program number.	11
0 – 9, -/--	Input numbers.	11
+/–	Adjust volume.	12
	Turn off temporarily or turn on the TV.	12
	Select TV or video input.	12
	Display the TV program.	12
	Mute the sound.	12
	Display on-screen information.	12
JUMP	Jump to previous channel.	12
Timer operations		
	Set TV to turn on automatically.	13
	Set TV to turn off automatically.	13
PIC MODE	Select picture mode.	14
SOUND MODE	Select sound mode.	14
FAVORITE	Display favorite channels.	15
SURROUND	Select surround mode.	16
Stereo/bilingual operations (Not used for these models)		
A/B	Select stereo/bilingual mode.	17
Teletext operations (Not used for these models)		
	Display Teletext broadcast.	–
	Enlarge the Teletext display.	–
	Reveal concealed information.	–
	Stop Teletext page from scrolling.	–
	Display Teletext service contents.	–
	Show TV screen while waiting for Teletext page.	–
■ (red, green, yellow, blue)	Access a Fastext menu	–
Menu operations		
MENU	Display the menu.	20
+ or –	Select and adjust item.	20
ENTER	Confirm selected item.	20

SECTION 2
DISASSEMBLY

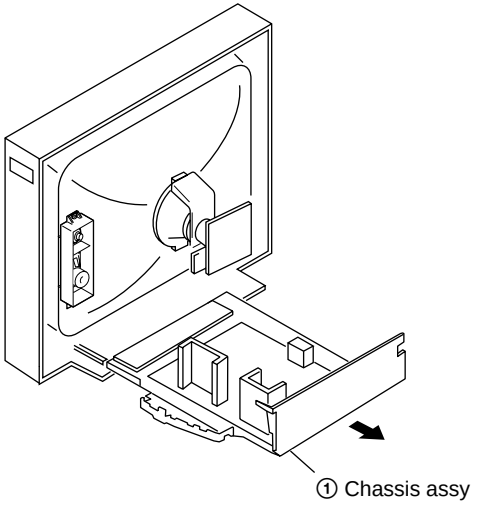
2-1. REAR COVER REMOVAL



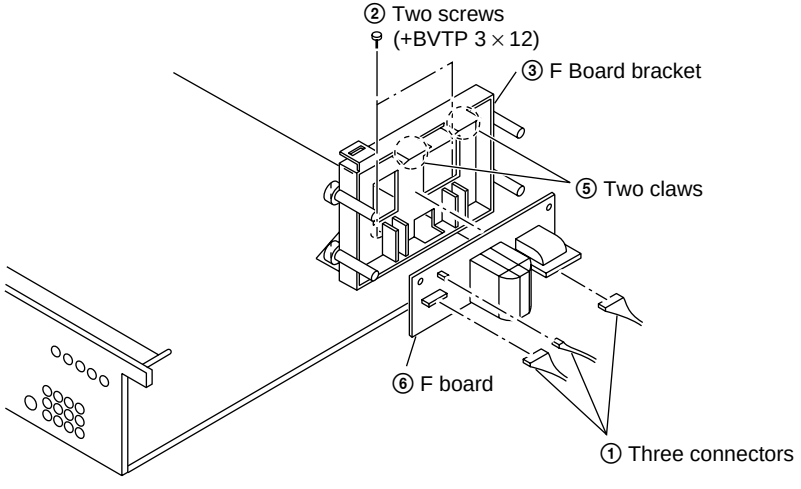
2-2. SPEAKER REMOVAL



2-3. CHASSIS ASSY REMOVAL

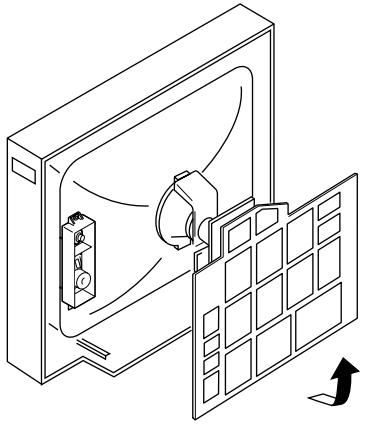


2-4. F BRACKET REMOVAL



2-5. SERVICE POSITION

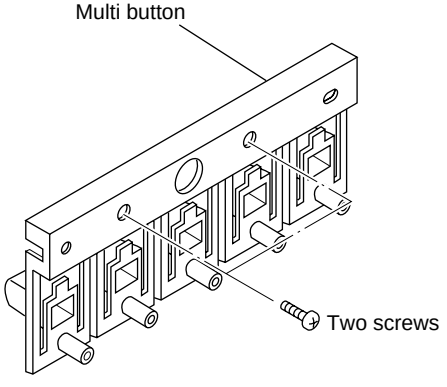
(Note: Remove F Bracket first.)



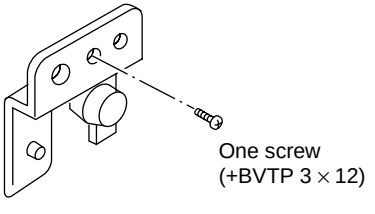
2-6. REPLACEMENT OF PARTS

For replacement of the Control Button and Light Guide, unscrew them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

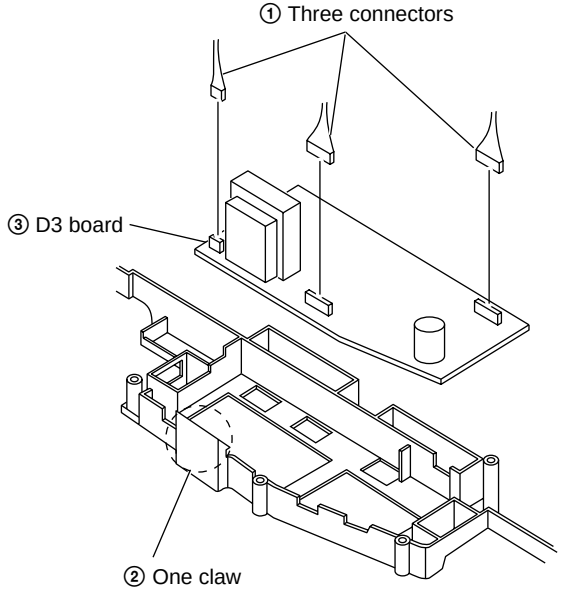
2-6-1. REPLACEMENT OF CONTROL BUTTON



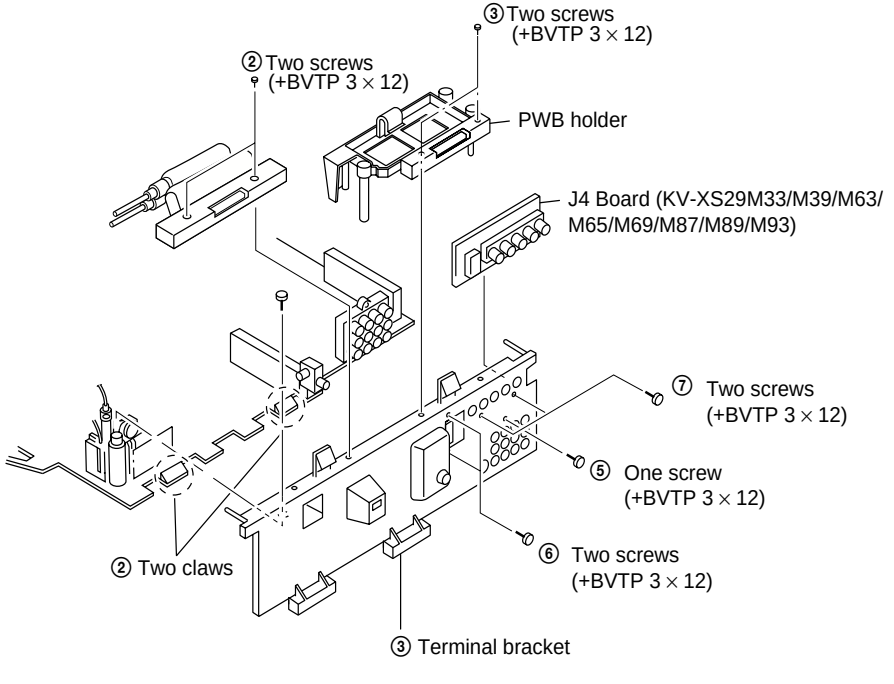
2-6-2. REPLACEMENT OF LIGHT GUIDE



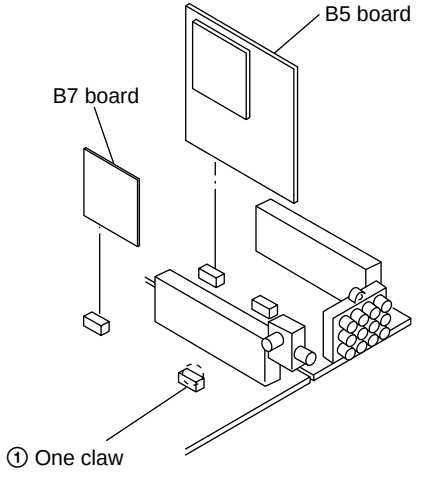
2-7. D3 BOARD REMOVAL



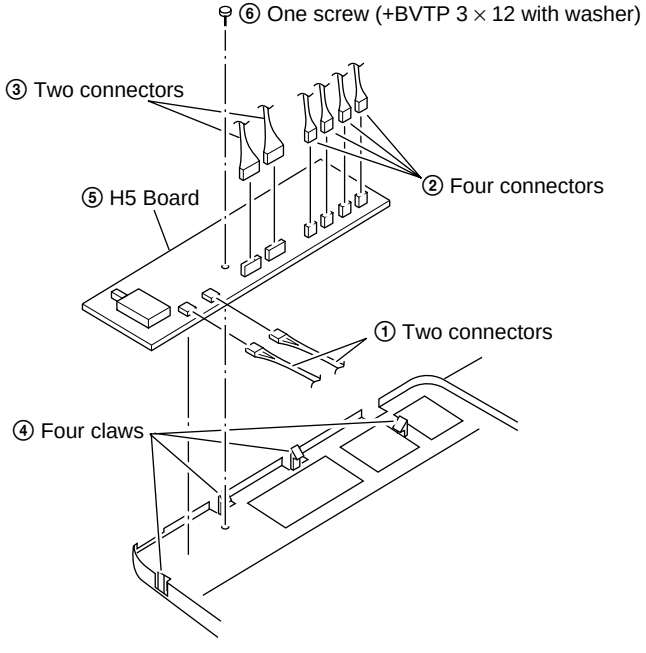
2-8. TERMINAL BRACKET REMOVAL


③ Two screws (+BVTP 3 × 12)
② Two screws (+BVTP 3 × 12)
PWB holder
J4 Board (KV-XS29M33/M39/M63/ M65/M69/M87/M89/M93)
⑦ Two screws (+BVTP 3 × 12)
⑤ One screw (+BVTP 3 × 12)
⑥ Two screws (+BVTP 3 × 12)
② Two claws
③ Terminal bracket

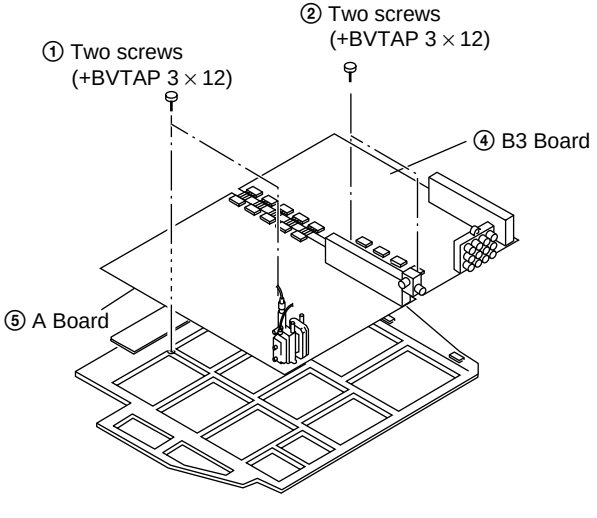
2-9. B5 and B7 BOARDS REMOVAL



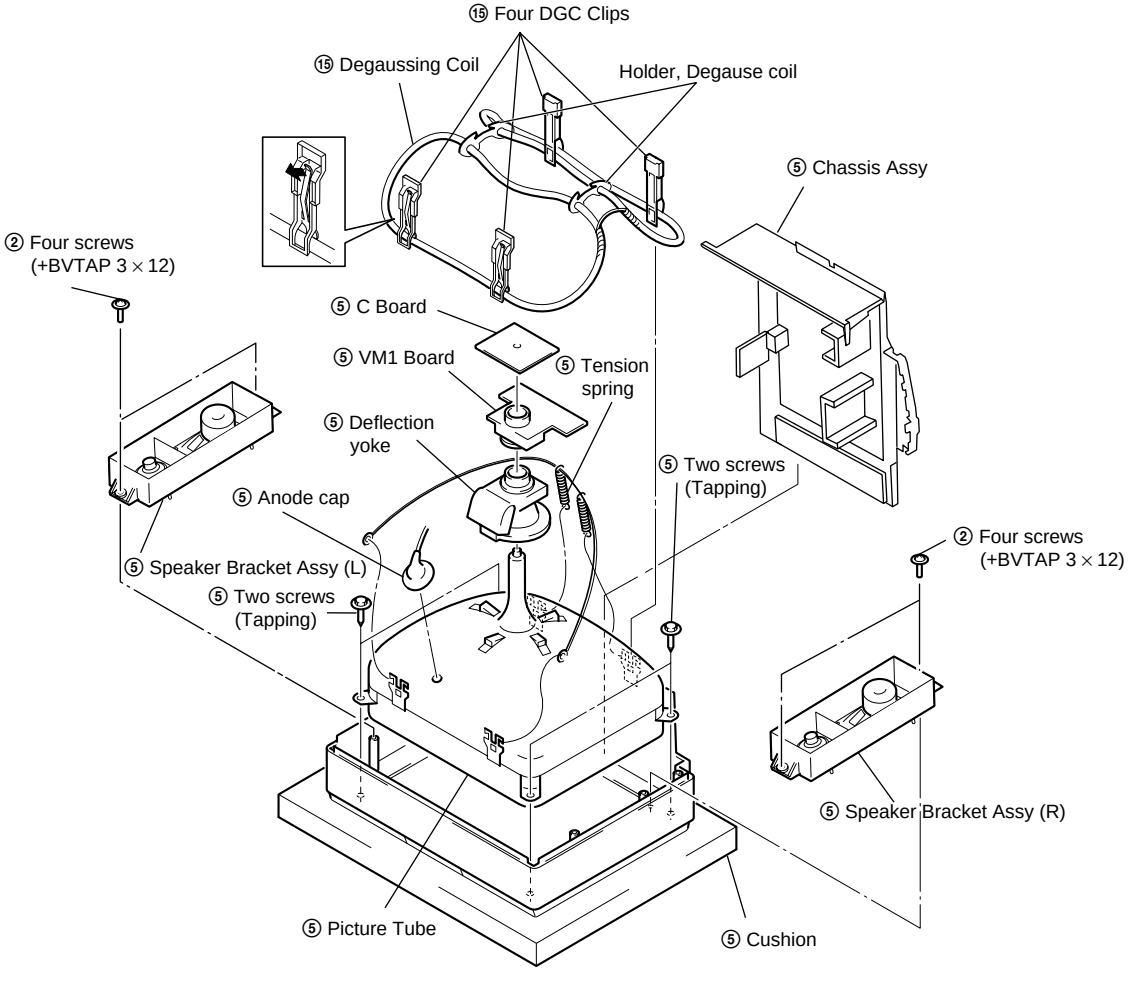
2-10. H5 BOARD REMOVAL



2-11. A AND B3 BOARDS REMOVAL



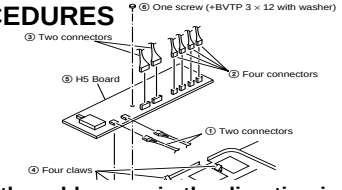
2-12. PICTURE TUBE REMOVAL`



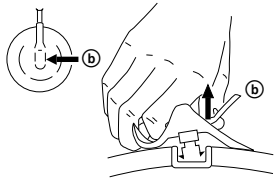
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

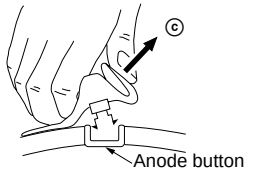
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



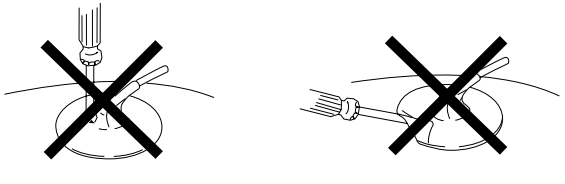
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-caps with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:
PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig3-2.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-4.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-5.)

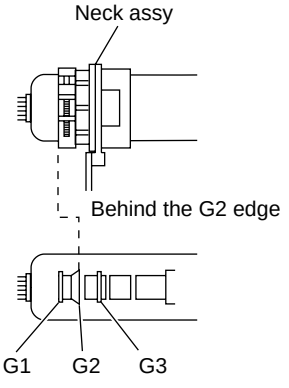


Fig. 3-1

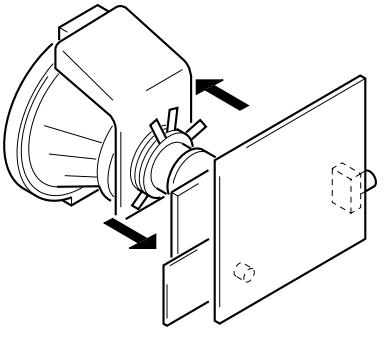


Fig. 3-2

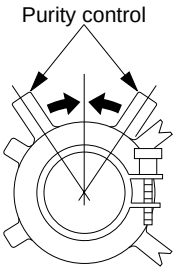


Fig. 3-3

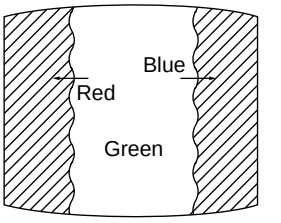


Fig. 3-4

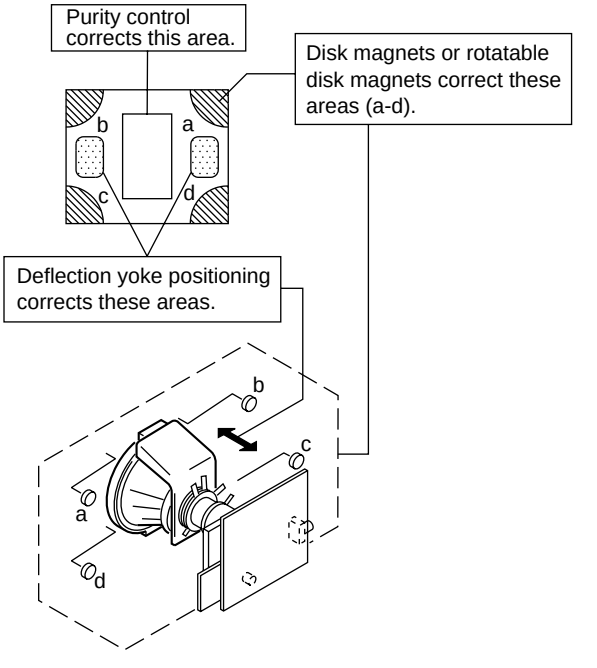


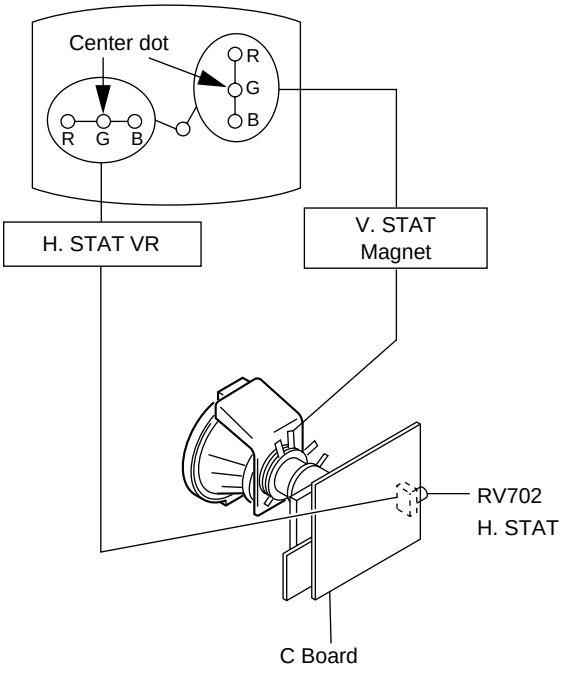
Fig. 3-5

3-2. CONVERGENCE

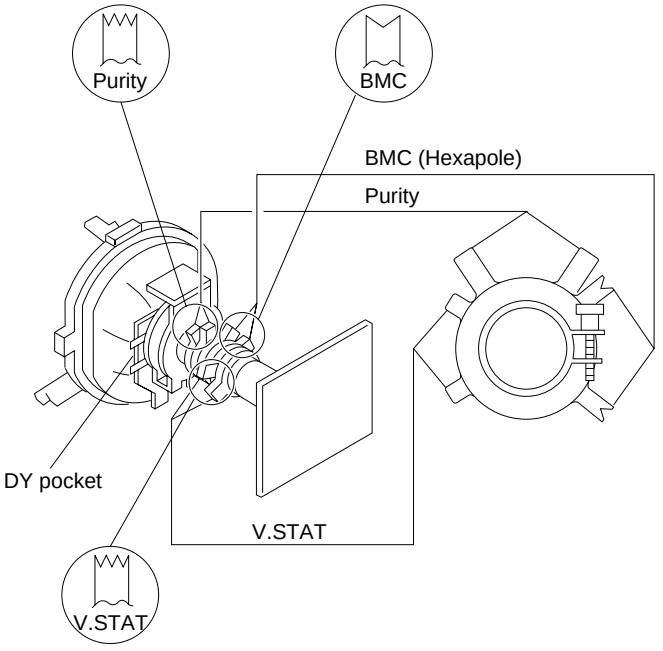
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

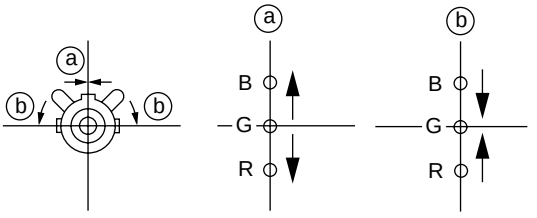
(1) Horizontal and Vertical Static Convergence



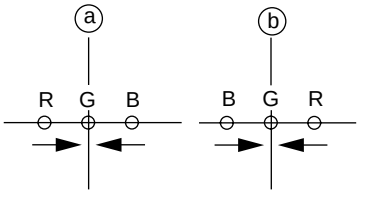
1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)



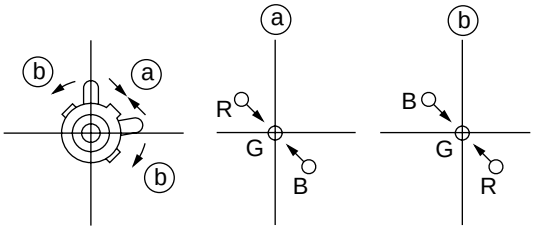
① V. STAT



② H. STAT VR

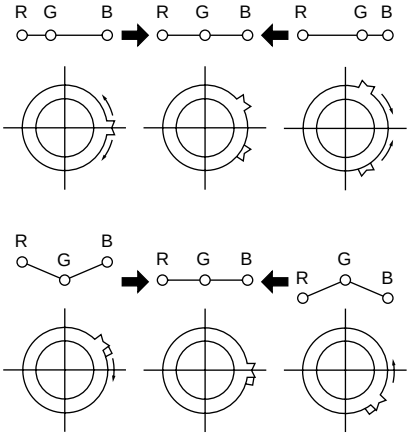


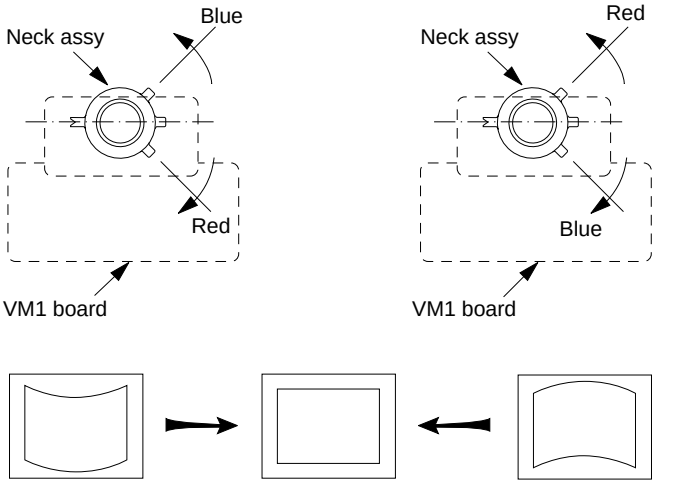
③



④ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.





Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

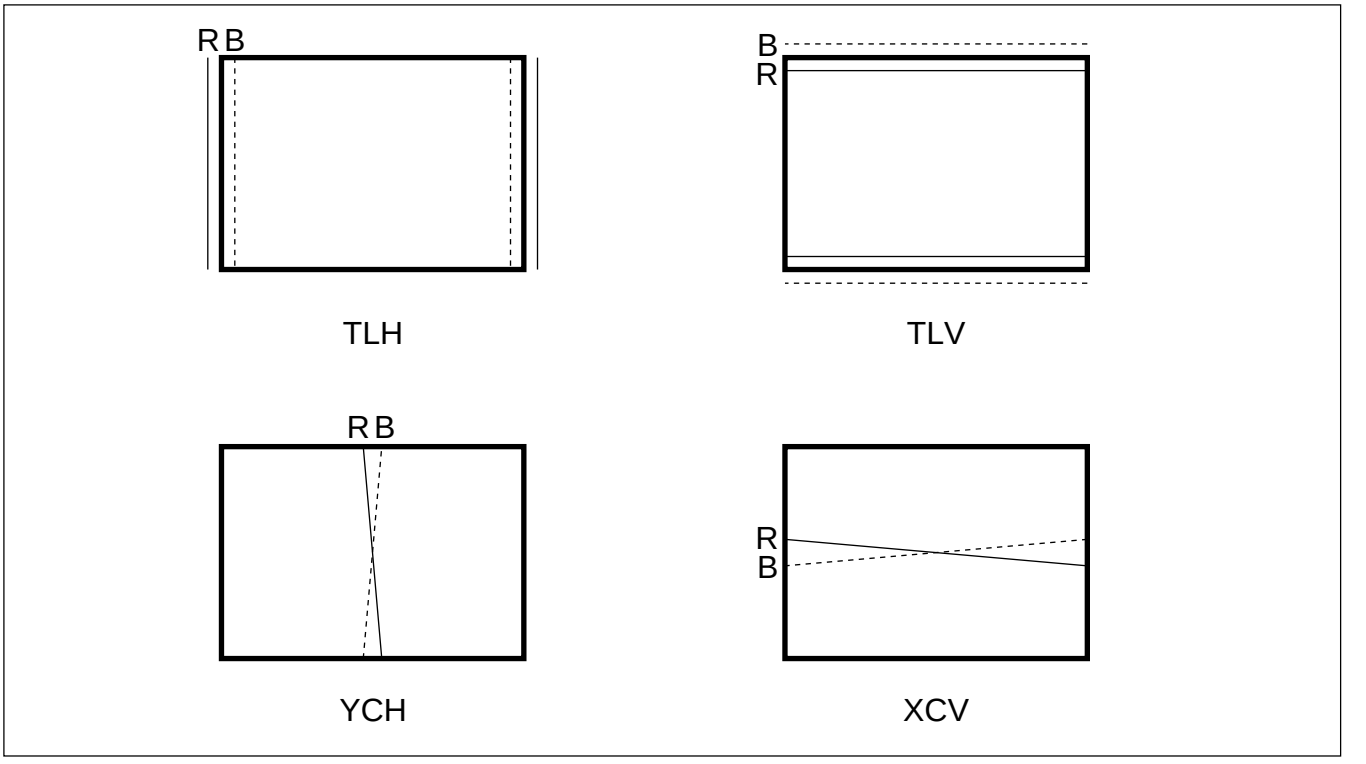
⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

(2) Dynamic Convergence Adjustment

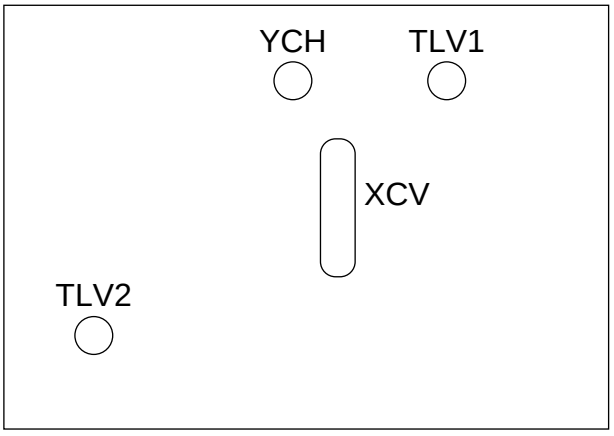
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence

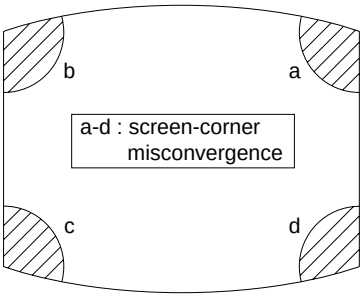


TLV	Rotate	TLV-2	VOL (29”, 34”) on DY
	Rotate	TLV	VOL (25”) on DY
XCV	Rotate	XCV	Adj core on DY
YCH	Rotate	YCH	VOL on DY
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)

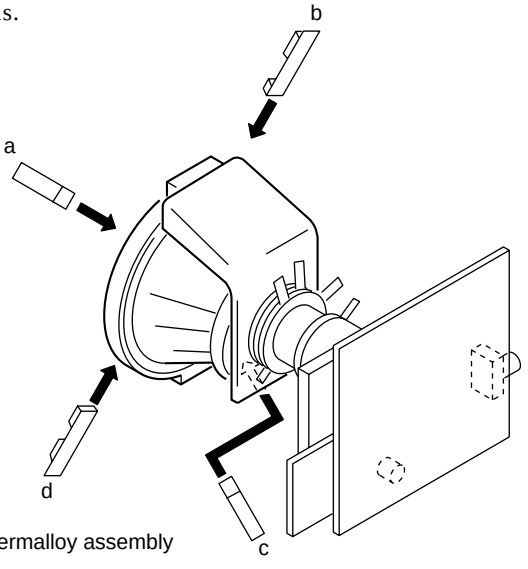
ON DY:



(3) Screen-corner Convergence

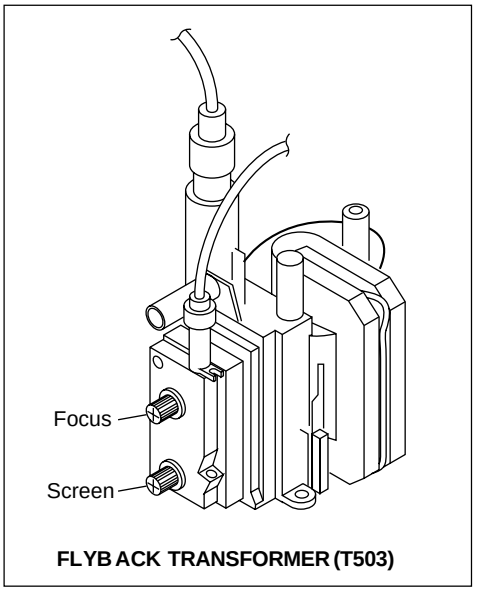


Fix a Permalloy assy corresponding to the misconverged areas.



3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.

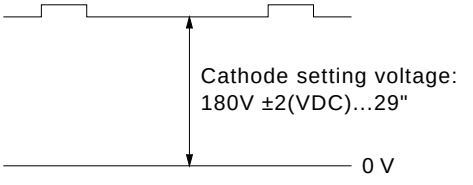


FLYBACK TRANSFORMER (T503)

3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

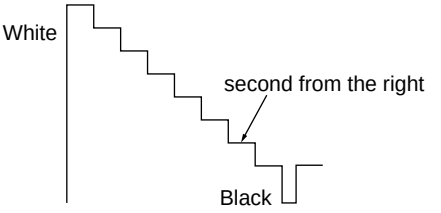


2. WHITE BALANCE ADJUSTMENT

1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the PICTURE to minimum.
4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

3. SUB BRIGHT ADJUSTMENT

1) Set to service mode.
2) Input a staircase signal of black to white from the pattern generator.
3) BRIGHTNESS .... 50%.
   PICTURE ..... MINIMUM
4) Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.



SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-954 that come with this unit.

a. ENTERING SERVICE MODE

With the unit on standby
↓
[DISPLAY]
↓
[5]
↓
[VOL (+)]
↓
[POWER]

This operation sequence puts the unit into service mode.

b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

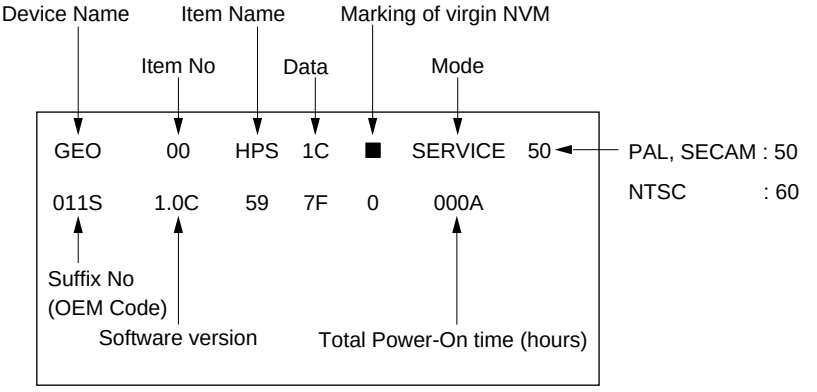
c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), select an item of adjustment.
3) Press [MUTING] button and it will indicate WRITE on the screen.
4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

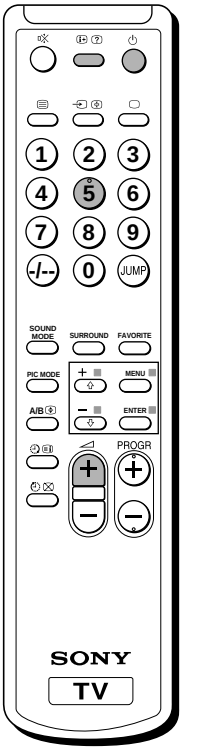
1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

The screen display is :



[1], [4]	Select the adjustment item.
↓	
[3], [6]	Raise/lower the data value.
↓	
[MUTING]	Writes.
↓	
[0]	Executes the writing.

[7], [0]	All the data becomes the values in memory.
[8], [0]	All user control goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[2], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.



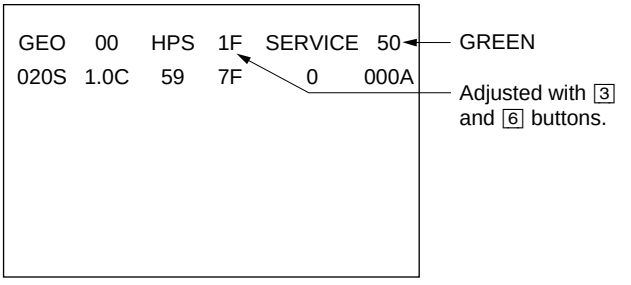
RM-954

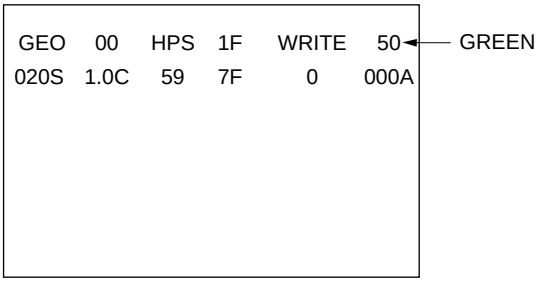
4-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

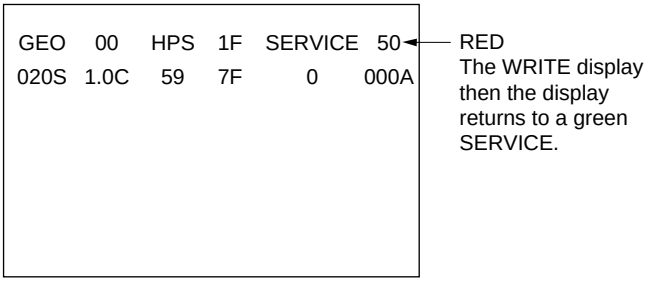
This explanation uses H-Position as an example.

1. Select “GEO 00 HPS” with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)





Written with [MUTING]



Write executed with [0]

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note : 1. In [WRITE], the data for all items are written into memory together.

2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
GEO	0	HPS	7	3F	H Position	50/60Hz	12 (7-2)	CXA2130S(88H)	97 (7-2)
	1	HSZ	1F	3F	H Size	50/60Hz	11 (7-2)		96 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60Hz	13 (7-2)		98 (7-2)
	3	TLT	7	0F	Trapezium	50/60Hz	15 (7-4)		9A (7-4)
	4	VPS	1F	3F	V Position	50/60Hz	0F (7-2)		94 (7-2)
	5	VSZ	1F	3F	V Size	50/60Hz	0E (7-2)		93 (7-2)
	6	SCO	7	0F	S Correction	50/60Hz	10 (7-4)		95 (7-4)
	7	VLN	7	0F	V Linearity	50/60Hz	10 (3-0)		95 (3-0)
	8	BOW	7	0F	AFC Bow	50/60Hz	16 (7-4)		9B (7-4)
	9	AGL	7	0F	AFC Angle	50/60Hz	16 (3-0)		9B (3-0)
	10	UPN	1F	3F	Upper Pin	50/60Hz	14 (7-2)		99 (7-2)
	11	LPN	2F	3F	Lower Pin	50/60Hz	18 (7-2)		9D (7-2)
	12	HBL	1	1	H Blanking on/off		18 (1)		6D (1)
	13	LBL	0F	0F	Left H Blanking	50/60Hz	17 (7-4)		9C (7-4)
	14	RBL	2	0F	Right H Blanking	50/60Hz	17 (3-0)		9C (3-0)
WHB	0	RDR	1F	3F	R Drive	DYNAMIC/others	09 (7-2)	CXA2130S(88H)	A4 (7-2)
	1	GDR	1F	3F	G Drive	DYNAMIC/others	0A (7-2)		A5 (7-2)
	2	BDR	1F	3F	B Drive	DYNAMIC/others	0B (7-2)		A6 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/others	07 (3-0)		A8 (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/others	08 (7-4)		A9 (7-4)
	5	BCT	7	0F	B Cutoff	SECAM/others	08 (3-0)		A9 (3-0)
	6	BMN	15	1F	Brightness Minimum Data		06 (7-2)		106
	7	SBR	1F	3F	Sub Brightness Control		06 (7-2)		107
SAJ	0	PMX	33	3F	Picture Maximum Data		03 (7-2)	CXA2130S(88H)	105
	1	SHU	8	0F	Sub Hue Control	TV/Video	05 (7-2)		108
	2	SSH	8	0F	Sub Sharpness Control	TV/Video	07 (7-4)		109
	3	SCL	1F	3F	Sub Color Control	NTSC/others	04 (7-2)		10A
VP	0	EHT	5	0F	EHT Comp	50/60HLC	15 (3-0)	CXA2130S(88H)	9A (3-0)
	1	GMA	2	03	Gamma Correction (separated in STANDARD mode)	NTSC/others	0B (1-0)		359 (1-0)
	2	YDL	0D	0F	Y Delay	PAL/SECAM/NTSC/DVD	0C (3-0)		A1 (3-0)
	3	SST	1	03	SECAM ID Start Position		1B (1-0)		70 (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		70 (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		71 (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		71 (7-2)
	7	DYC	1	1	Dynamic Color on/off		0A (1)		5F (1)
	8	ABL	1	1	ABL Mode Switching (except STANDARD mode)			09 (1)	5E (1)
	9	VTH	1	1	ABL Detection Vth Switching		09 (0)		5E (0)
	10	SFO	1	1	FO Switching for Sharpness	NTSC/others	05 (1)		34A (1)
	11	DCX	1	1	DC Trans. Ratio Switching		06 (1)		5B (1)
	12	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		34A (0)

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
VP	13	HDW	0	1	H Drive Pulse Width Switch		00 (6)		55 (6)
	14	AFC	1	03	AFC Gain Control	TV/Video/Text	0F (1-0)		A2 (1-0)
	15	HOS	7	0F	H Oscillation		0C (7-4)		61 (7-4)
	16	HSS	0	1	Slice Level of H Sync Sep.		0D (1)		62 (1)
	17	VSS	0	1	Slice Level of V Sync Sep.		0D (0)		62 (0)
	18	HMS	1	1	Macro Vision C/m off/on	50/60Hz	0E (0)		93 (0)
	19	YUV	0	1	YUV Switch Control		01 (0)		56 (0)
	20	CDV	1	3	CD mode for Video and RF under no signal	Video only	0D (5-4)		357 (5-4)
	21	RON	1	1	R ON	not memorized	01 (3)		56 (3)
	22	GON	1	1	G ON	not memorized	01 (2)		56 (2)
	23	BON	1	1	B ON	not memorized	01 (1)		56 (1)
	24	PON	1	1	P ON	not memorized	00 (7)		55 (7)
	25	BLK	0	1	BLK Off		12 (0)		67 (0)
	26	VMC	0	1	VM Off		13 (0)		68 (0)
AP	0	BCS	1	3	Bass Center Shift		#4 (3-0)	TDA7315(80H)	34C (1-0)
	1	TCS	1	3	Treble Center Shift		#5 (3-0)		34D (1-0)
	2	TRF	2	3	RF Treble Offset		#5 (3-0)		356 (1-0)
MSP	0	WST	15	FF	W/G Stereo Threshold			MSP3415D(84H)	165
	1	WBT	EA	FF	W/G Bilingual Threshold				166
	2	WLL	5	FF	W/G Monaural Threshold				167
	3	WAC	1	0F	W/G Agreement Count				168
	4	WDL	30	FF	W/G Search Delay				169
	5	NDL	20	FF	NICAM Search Delay				16A
	6	SDL	10	FF	Stereo status Read Delay				16B
	7	AGC	1	1	AGC Switch Auto/Constant		00BB (7)		116 (7)
	8	REL	28	3F	AGC Gain at Constant Mode		00BB (6-1)		116 (6-1)
	9	CRM	0	1	Carrier muting on/off		00BB (9)		115 (9)
	10	ACO	1	1	Audio Clock out on/off		0083 (5)		11A (5)
	11	FP	1B	7F	FM Prescale for non-M system		000E (14-8)		321
	12	FPM	32	7F	FM Prescale for M system		000E (14-8)		322
	13	FH	36	7F	FM Prescale for HDEV		000E (14-8)		323
	14	FHM	65	7F	FM Prescale for HDEV and M		000E (14-8)		324
	15	WGP	2A	7F	W/G Prescale		000E (14-8)		325
	16	NIP	6D	7F	NICAM Prescale		0010 (14-8)		14F
	17	ERR	50	FF	Auto FM switch Threshold		0021 (10-3)		174
	18	VOL	6D	FF	Loud Speaker gain 7000h to 7ff0h		0000 (15-4)		352

Adjustment Item Table

Device Name	Functionality No	Functionality Name	Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
SVP	0	SBF	22	3F	SECAM BELL f0		1C (7-2)	CXA2060AS(8AH)	86 (7-2)
	1	HOS	7	0F	H Oscillation		0C (7-4)		81 (7-4)
	2	SHU	8	0F	Sub Hue Control	TV Video	05 (7-2)		310
	3	SCL	1F	3F	Sub Color Control	NTSC/others	04 (7-2)		311
PIP	0	SDL	1	0F	Delay of output SELECT		01 (6-3)	SDA9288X(D6H)	18E (6-3)
	1	PPH	15	FF	H Position of TOP-LEFT Pin P		01/02		19D
	2	PPV	2E	FF	V Position of TOP-LEFT Pin P		03 (7-0)		19E
	3	YDL	0	07	Delay of Luminance Input		04 (2-0)		191 (2-0)
	4	HDI	0	0F	H Sync Delay for Inset		06 (3-0)		193 (3-0)
	5	ISC	0	1	Inset Clock Selection		06 (4)		193 (4)
	6	CLP	1	1	Clamp Pulse Selection		06 (5)		193 (5)
	7	CLC	0	1	Clamp Cycle Selection		06 (6)		193 (6)
	8	CON	1	0F	Contrast Adjustment for inset		09 (7-4)		196 (7-4)
	9	PLL	2	03	H Position For A-ch		0D (6-5)		19A (6-5)
	10	PDV	0	0F	PIP V Pedestal Level		0E (7-4)		19B (7-4)
	11	PDU	0	0F	PIP U Pedestal Level		0E (3-0)		19B (3-0)
TXT	0	TXH	1	3	Teletext Horizontal Position		10(1-0)	SAA5261(58H)	348 (1-0)
	1	TXV	0	3	Teletext Vertical Position		10(5-4)		348 (5-4)
OPM	0	OSH	0A	3F	OSD H Position	Option-Misc	1F1	CXP86461(60H)	17B (7-2)
	1	COM	1	03	Comb Selection(00-No Comb, 01-Glass Comb, 02-Digital Comb, 03-Not used)				33F (7-6)
	2	APC	1	1	APC Switch	01-Glass Comb,			33E (5)
	3	TSY	0	03	TV Sys at Auto TV Sys	02-Digital Comb,			33E (4-3)
	4	MUT	0	1	No Signal Mute	03-Multi Standard Comb)			33E (0)
	5	AFM	1	1	Auto FM switch				33E (1)
	6	RFB	0	3	C-BPF Control				33F (5-4)
	7	TVO	0	7	Tilt to V-Angle offset				33F (2-0)
	8	DBL	0	1	Disable Blueback function				33F (2)
	9	SSO	0	1	Speed Search Option (0-Off, 1-4X, 2-6X, 3-8X)				
OPB	0	OP1	FF	FF	Optional Bits 1 (see below)	Option-Bits		CXP86461(60H)	49
	1	OP2	E3	FF	Optional Bits 2 (see below)				4A
	2	OP3	0	FF	Optional Bits 3 (see below)				4B
	3	OP4	7	FF	Optional Bits 4 (see below)				4C

NOTE

- shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION.

No. OPB0 OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
KV-XS29M80(ME)	1	1	1	1	1	1	1	1
KV-XS29M80(JE)	1	1	1	1	1	1	1	1

No. OPB1 OP2

Item	TOP	NICAM	HDEV	Thai Bil	Dis. Fav	DVD Input	AV Input	
KV-XS29M80(ME)	0	0	0	0	0	0	1	1
KV-XS29M80(JE)	0	0	0	0	0	1	1	1

AV Input 00 = no AV Input 01 = 1 AV Input
10 = 2 AV Input 11 = 3 AV Input

DVD Input Effective only when “AV Input” is set to 3 AV Input.

Dis Fav. Disable Favorite Channel (Effective For XF-L (21" & 14") Models Only)

No. OPB2 OP3

Item	PIC Rotate	2199 Curve	Auto PIC	Auto TV sys	US ST	AV Mono	11 KEY	Color SW
KV-XS29M80(ME)	0	0	1	1	0	0	0	1
KV-XS29M80(JE)	0	0	1	1	0	0	0	0

PIC Rotate*1 PIC Rotation Switch 0 = disabled, 1 = enabled.

2199 Curve*1 2199 Volume Curve Selection 0 = Others, 1 = 2199 Volume Curve

Auto PIC Auto Picture Improvement 0 = inactive, 1 = active

A-TVsys Auto TV System in Auto Program 0 = disabled, 1 = enabled

US ST USA Stereo 0 = disabled, 1 = enabled

AV Mono*1 AV Mono model 0 = Stereo, 1 = Mono (No Balance & Surround selection)

11 Key Front Key Selection 0 = 7 key model, 1 = 11 key model

Color SW*2 Color Data Selection in Dynamic Mode 0 = 65 (No PIP), 1 = 57 (PIP)

Note *1 – For XF-L (21" & 14") Models Only
*2 – For XF-H (34", 29" & 25") Models Only

No. OPB3 OP4

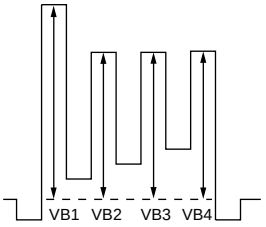
Item	–	–	–	–	–	Chinese	Arabic	Thai
KV-XS29M80(ME)						0	1	0
KV-XS29M80(JE)						1	0	0

APPLICABLE TO XS ONLY - Sub Language Selection (Bit 0-Bit 2)

4-3. PICTURE QUALITY ADJUSTMENTS

SUB COLOR ADJUSTMENT

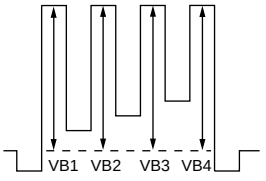
1. Input a PAL color-bar.
2. Set to the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
4. Set to Service Mode and select SAJ 3 'SCL' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust SAJ 3 'SCL' as step 2 to 5 when receiving NTSC color-bar.



VB2 = VB3 = VB4

SUB HUE ADJUSTMENT

1. Select Video 1.
2. Input a NTSC color-bar, video into Video 1.
3. Set the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 1 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].

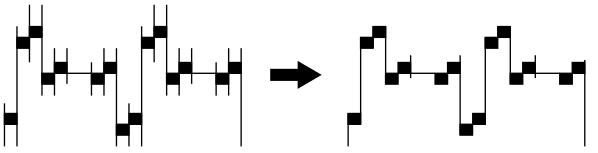


VB1 = VB2 = VB3 = VB4

6. Press [MUTING] → [0] of the commander to write the data.

BELL FILTER ADJUSTMENT

1. Input SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to CN303 pin ⑨ (not mounted).
3. Adjust SERVICE MODE, ITEMS 'SBF' as shown below.



4-4. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (µ-COM) to the following new IC at the same time.
IC001(µ-CON):
CXP750097-020S

1. Enter to Service Mode.

2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.

3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the items with fine adjustment.
   Write the data per each item number ([MUTING] +[0]).

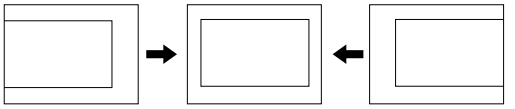
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons [3] and [6].

5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (This will also cancel Service Mode.)

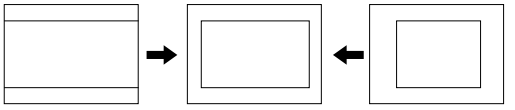
4-5. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

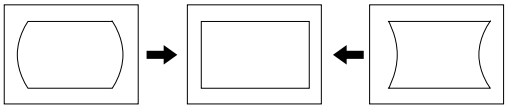
GEO 0 HPS (H POSITION)



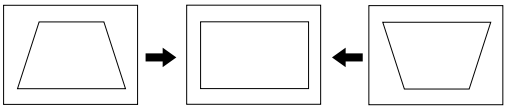
GEO 1 HSZ (H SIZE)



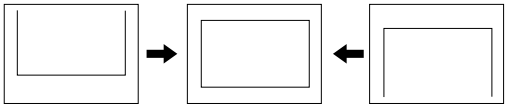
GEO 2 PAP (PIN AMP)



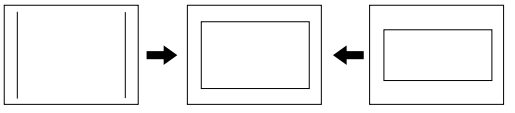
GEO 3 TLT (TRAPEZIUM)



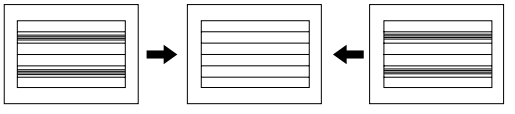
GEO 4 VPS (V POSITION)



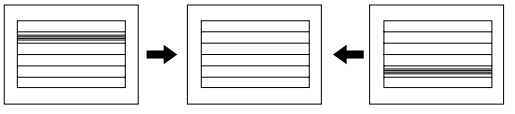
GEO 5 VSZ (V SIZE)



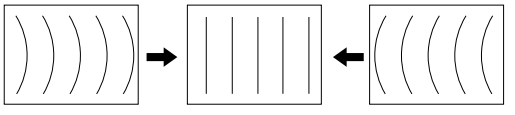
GEO 6 SCO (VERTICAL S-Correction)



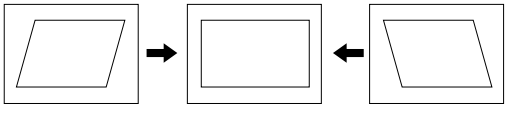
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

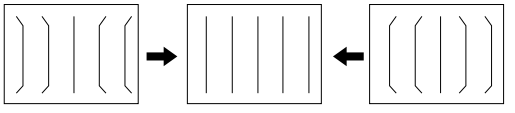


GEO 9 AGL (AFC.ANGLE)



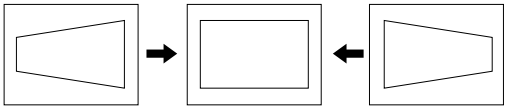
GEO 0A UCP (UPPER CORNER PIN)

GEO 0B LCP (LOWER CORNER PIN)



PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (Rotate RV1801)

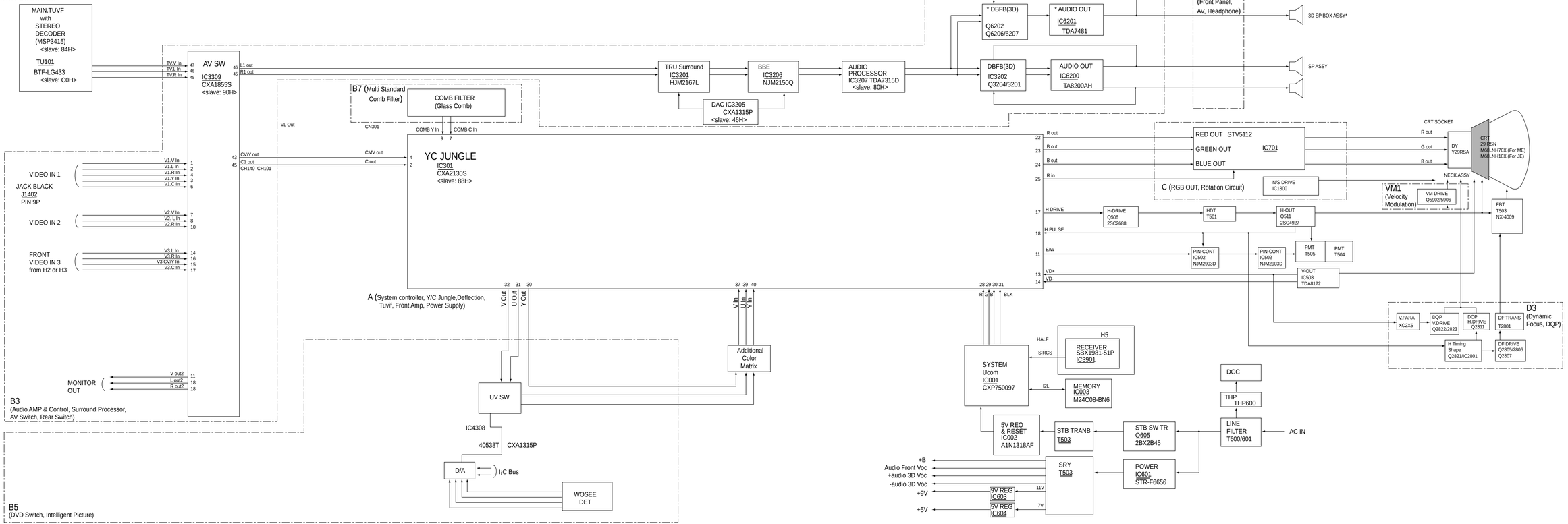


MEMO

MEMO

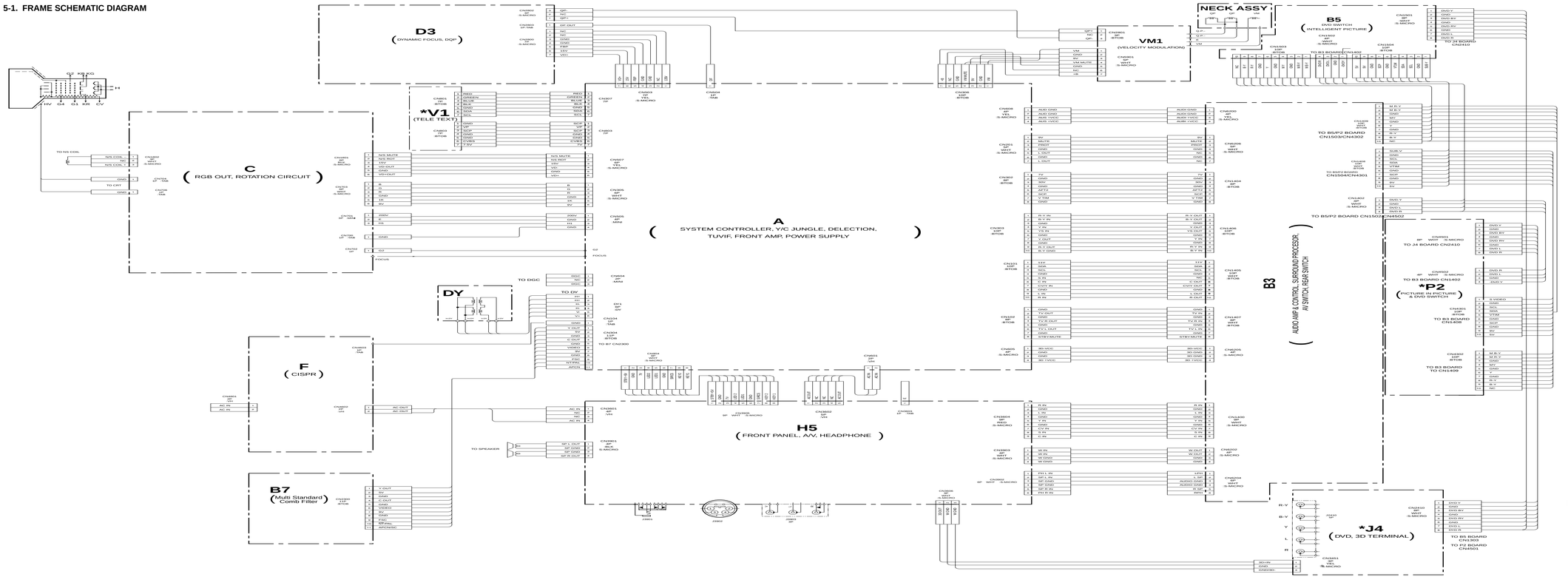
SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



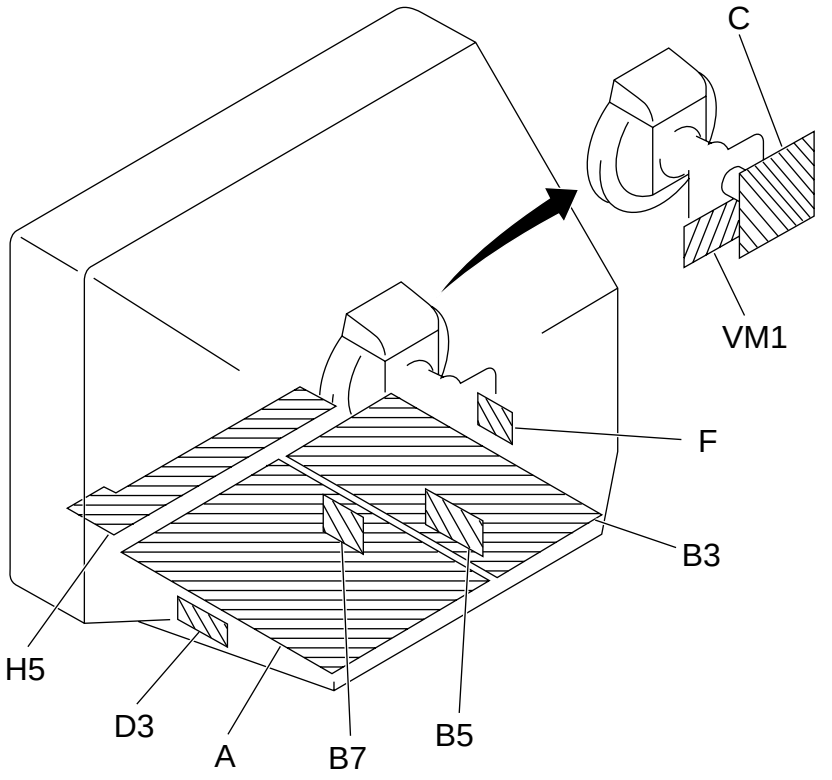
KV-XS29M80 KV-XS29M80
RM-954 RM-954

5-1. FRAME SCHEMATIC DIAGRAM



NOTE: * Not used for these models.

5-3. CIRCUIT BOARDS LOCATION



Note: * Not used for these models.

5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance which does not have rating electrical power is as follows.
  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)
- : nonflammable resistor.
- △ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Readings are taken with a color-bar signal input.**
  no mark : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  « » : NTSC 4.43
- **Readings are taken with a 10 MΩ digital multimeter.**
- **Voltage are dc with respect to ground unless otherwise noted.**
- **Voltage variations may be noted due to normal production tolerances.**
- **All voltages are in V.**
- * **: Cannot be measured.**
- **Circled numbers are waveform references.**
- **: B + bus.**
- **: B – bus.**
- ⇨ **: signal path.**

Reference information

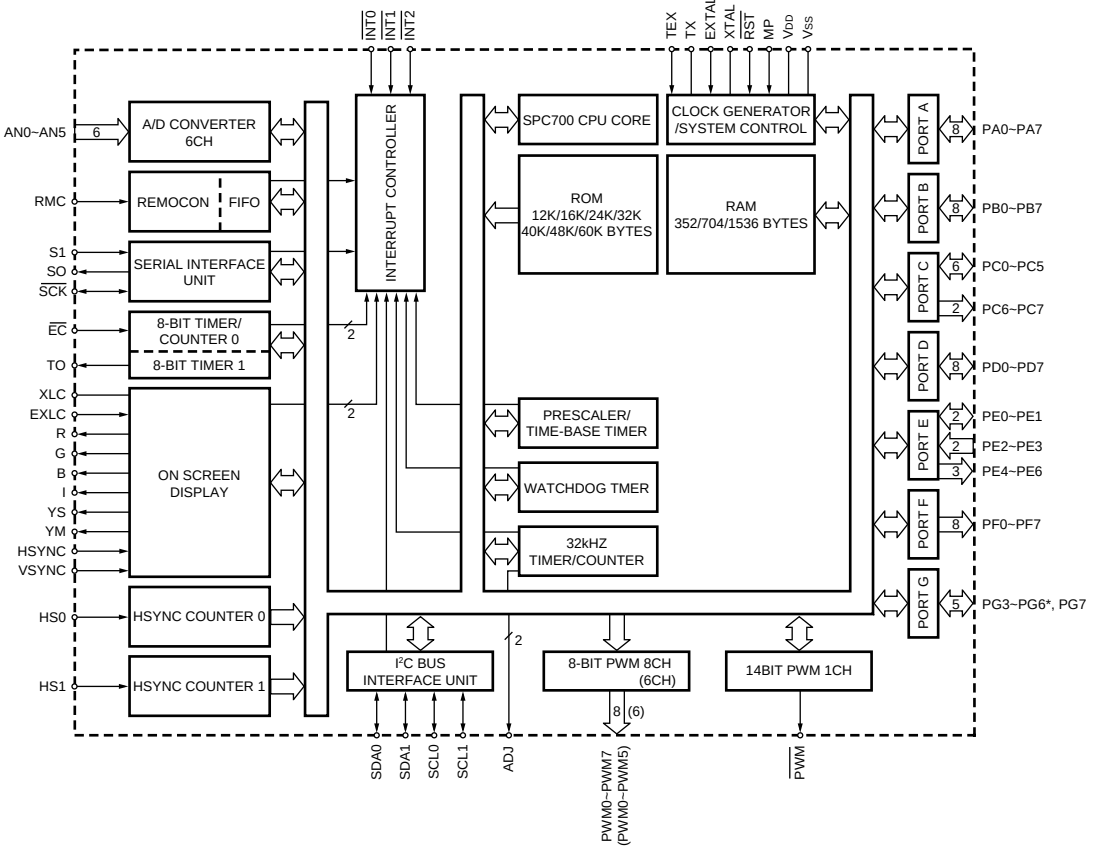
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

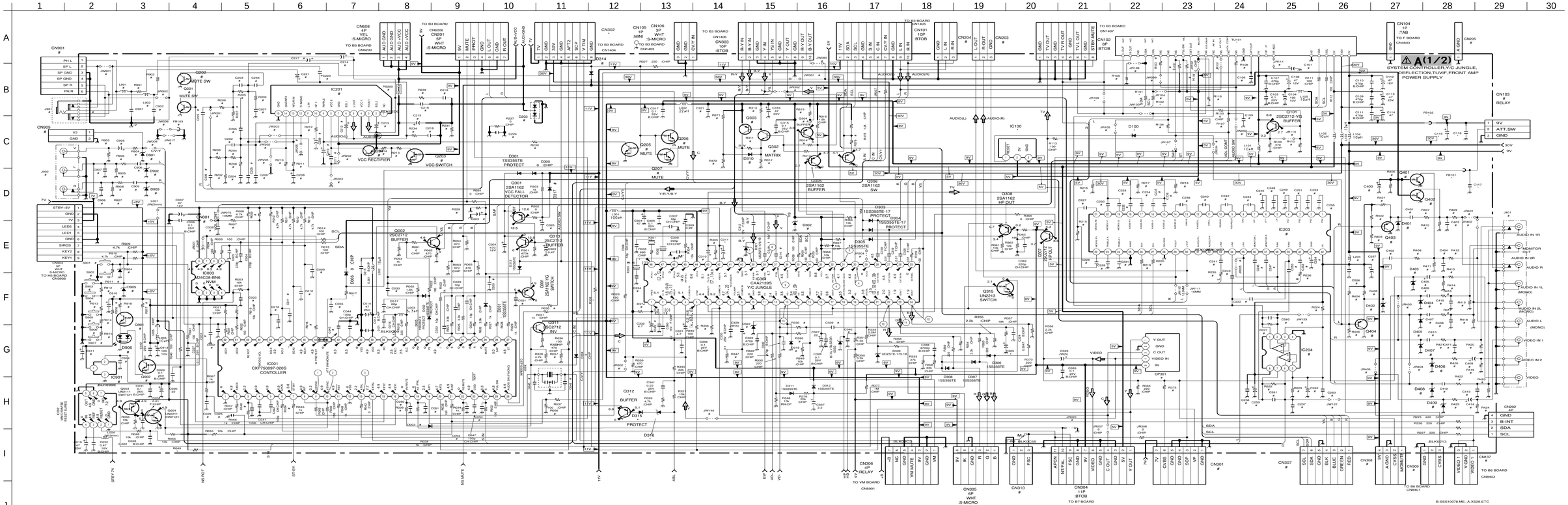
A BOARD WAVEFORMS

① 4.8Vp-p (V)	② 5.1Vp-p (V)	③ 4.0Vp-p (V)	④ PAL/SECAM 1.2Vp-p (H)	④ NTSC 1.5Vp-p (H)
⑤ PAL/SECAM 1.0Vp-p (V)	⑤ NTSC 1.1Vp-p (V)	⑥ 0.2Vp-p (H)	⑦ PAL/SECAM 1.2Vp-p (H)	⑦ NTSC 1.4Vp-p (H)
⑧ PAL/SECAM 1.2Vp-p (H)	⑧ NTSC 1.2Vp-p (H)	⑨ PAL/SECAM 1.5Vp-p (H)	⑨ NTSC 1.5Vp-p (H)	⑩ PAL/SECAM 3.2Vp-p (H)
⑩ NTSC 3.4Vp-p (H)	⑪ 3.4Vp-p (H)	⑫ PAL/SECAM 3.2Vp-p (H)	⑫ NTSC 3.58 3.2Vp-p (H)	⑫ NTSC 4.43 3.4Vp-p (H)
⑬ PAL/SECAM/NTSC 3.58 1.3Vp-p (H)	⑭ 106Vp-p	⑮ 240Vp-p	⑯ 1.1Vp-p (V)	

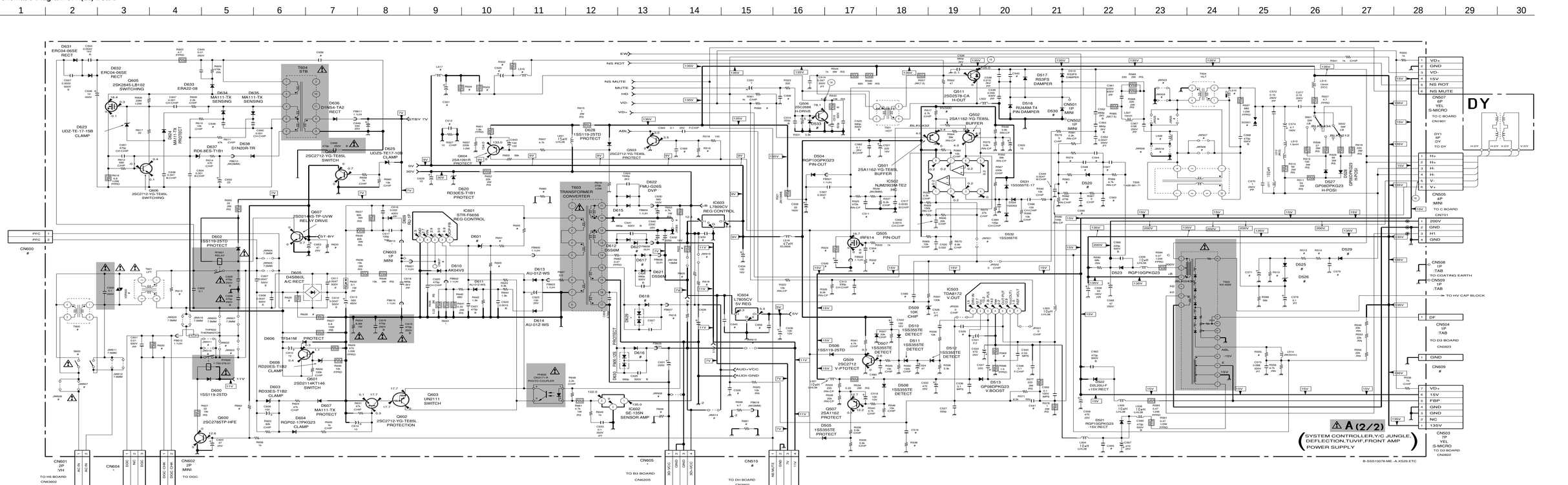
A BOARD IC001 CXP750097-020S



(1) Schematic Diagram of A(1/2) Board



(2) Schematic Diagram of A(2/2) Board



Schematic diagram
← A (1/2) board

– 57 –

Schematic diagram
A (2/2) board →

– 58 –

– 59 –

– 60 –

KV-XS29M80
RM-954

A BOARD

IC

IC001	B-10
IC002	C-9
IC003	A-9
IC100	B-5
IC201	B-11
IC203	C-3
IC204	B-2
IC301	B-6
IC502	E-6
IC503	J-5
IC601	I-8
IC602	H-6
IC603	D-8
IC604	D-10
IC901	I-13
PH600	H-7

TRANSISTOR

Q001	B-8
Q002	B-8
Q003	C-9
Q004	C-9
Q101	A-4
Q201	A-11
Q202	A-11
Q203	C-11
Q204	C-11
Q205	A-12
Q206	A-11
Q207	A-11
Q301	B-8
Q302	A-6
Q303	A-6
Q304	B-6
Q305	B-5
Q306	B-5
Q307	C-7
Q308	C-7
Q309	C-7
Q310	D-7
Q311	D-9
Q312	B-7
Q313	B-8
Q315	B-5
Q401	D-2
Q402	D-1
Q403	D-2
Q404	C-3
Q501	D-6
Q502	E-7
Q503	F-6
Q505	D-6
Q506	D-2
Q507	H-6
Q509	F-6
Q511	F-1
Q600	C-12
Q601	F-11
Q602	J-7
Q603	I-7
Q604	H-6
Q605	E-12
Q606	F-11
Q607	H-13
Q901	H-13
Q902	H-13

DIODE

D001	B-8
D002	C-8
D003	C-9
D004	D-8
D005	B-8
D006	A-3
D203	C-11
D300	A-9
D301	B-9
D302	B-6
D303	B-5
D304	B-5
D305	B-5
D306	C-5
D307	C-5
D308	B-5
D309	B-6
D310	A-6
D311	C-6
D312	C-6
D313	A-8
D315	B-7
D316	C-7
D317	B-9
D314	A-9
D319	C-6
D320	C-6
D321	B-6
D401	D-2
D402	C-3
D403	B-1
D404	C-2
D405	C-1
D406	B-1
D407	C-2
D408	C-1
D409	A-1
D504	D-5
D505	H-6
D506	F-6
D507	F-6
D508	I-5
D509	E-6
D510	F-5
D511	F-5
D512	G-5
D513	I-5
D517	F-2
D518	F-2
D519	F-2
D520	E-5
D521	I-4
D522	J-4
D525	F-5
D526	F-6
D527	F-3
D528	F-3
D529	F-5
D530	F-2
D531	E-6
D532	E-6
D533	D-2
D534	E-6
D600	G-13
D601	I-8
D602	G-13
D603	F-11
D604	J-7
D605	G-10
D606	E-11
D607	F-10
D608	E-11
D609	H-8
D610	J-8
D611	I-7
D612	F-8
D613	I-7
D614	H-7
D615	E-7
D616	E-9
D617	F-8
D618	F-9
D620	D-8
D621	F-8
D622	F-7
D623	F-12
D624	F-12
D625	D-12
D627	F-8
D628	G-5
D629	F-9
D630	E-9
D631	G-12
D632	F-12
D633	E-12
D634	F-11
D635	F-12
D636	D-12
D637	F-11
D638	E-11
D901	C-13
D902	D-13
D903	C-13
D904	D-13
D905	F-13
D906	I-13

A SYSTEM CONTROLLER, Y/C JUNGLE, DEFLECTION, TUVIF, FRONT AMP, POWER SUPPLY

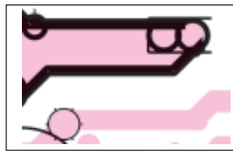
PRINTED WIRING BOARD

– A Board –

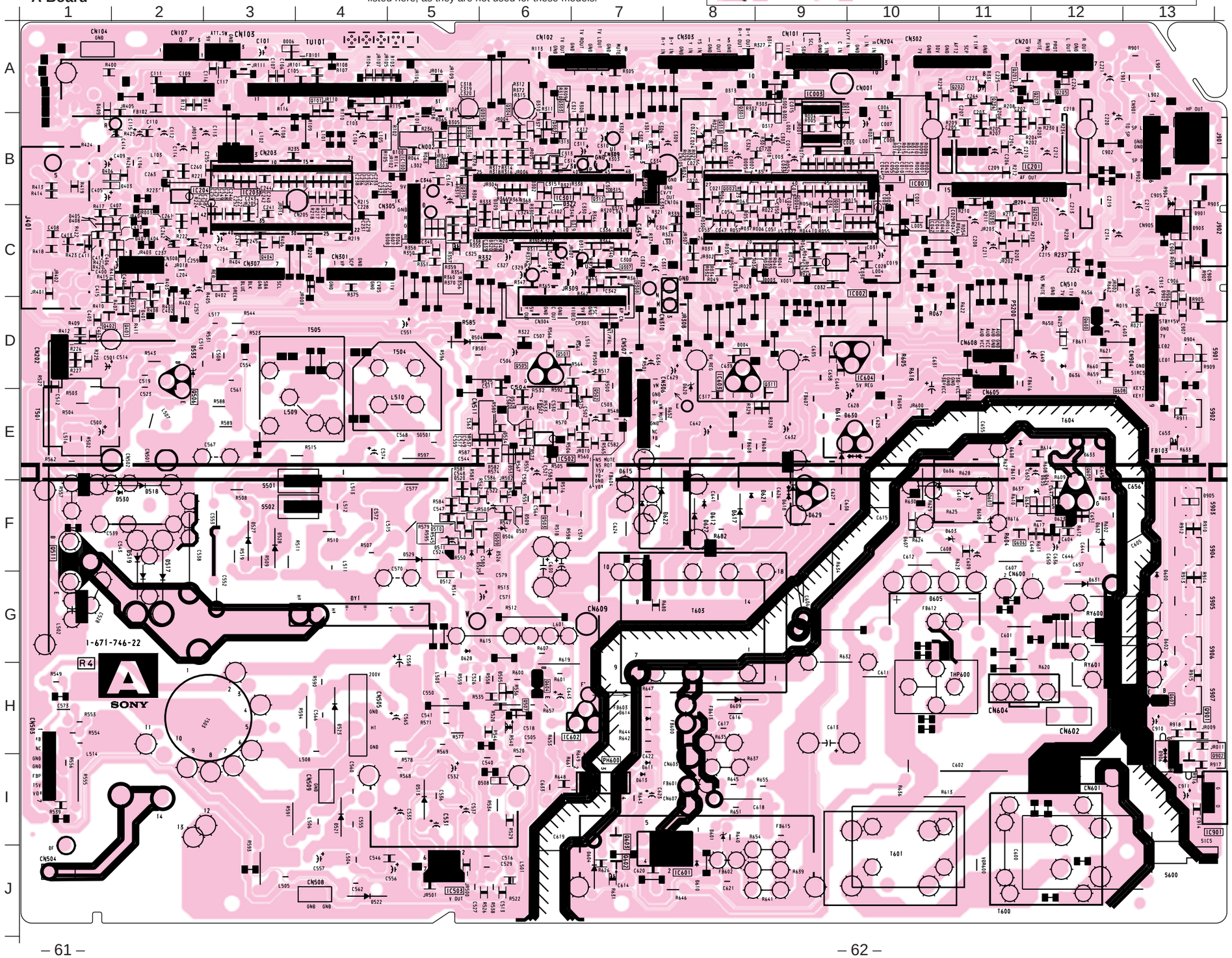
A BOARD ✻ MARK LIST

	KV-XS29M80(JE)	KV-XS29M80(ME)
L505	10µH	#
L506	10µH	#
L508	10µH	#

Note) The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.



NOTE:
The circuit indicated at left contains high voltage of over 600 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

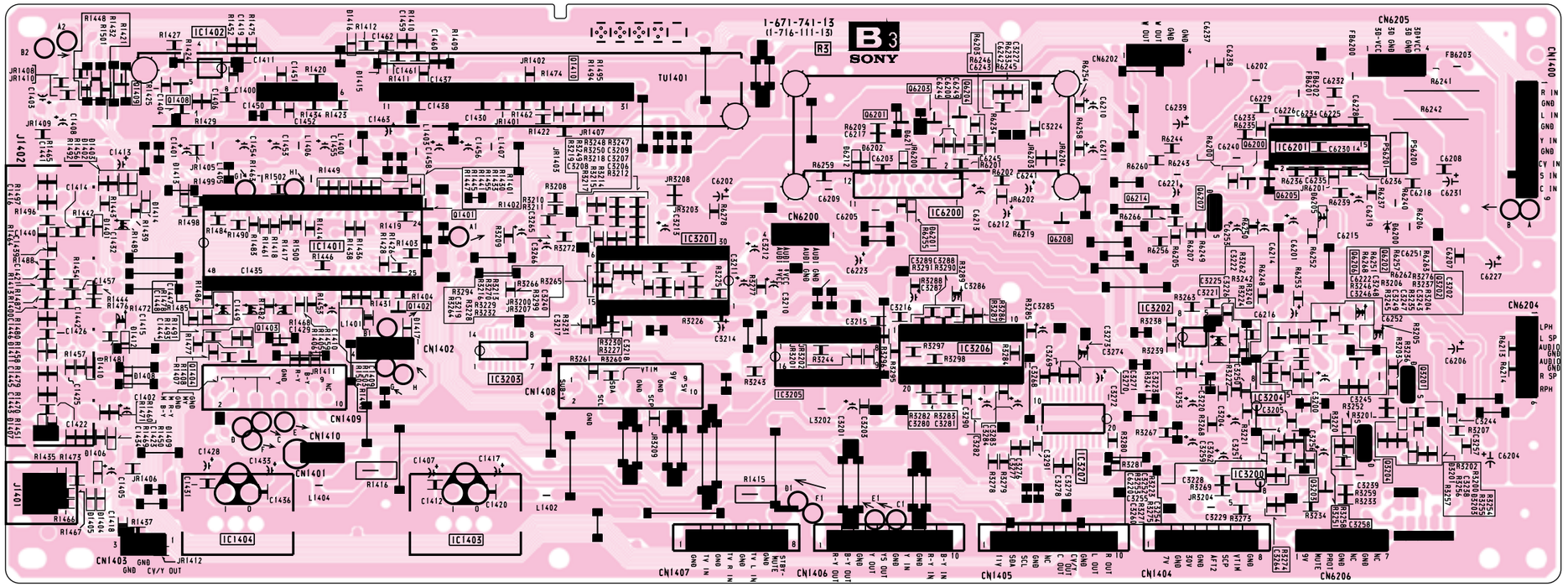


KV-XS29M80
RM-954

B3 [AUDIO AMP & CONTROL, SURROUND PROCESSOR, AV SWITCH, REAR SWITCH]

PRINTED WIRING BOARD

– B3 Board –

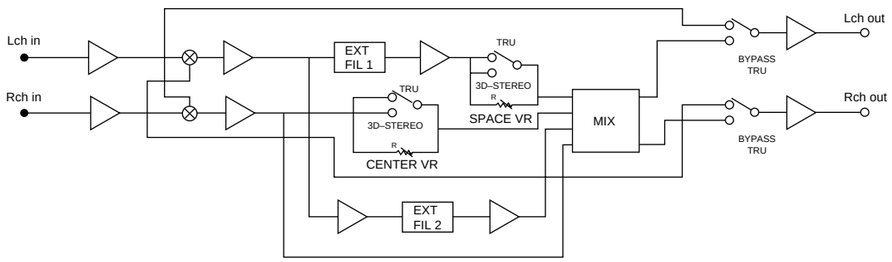


B3 BOARD ✻ MARK LIST

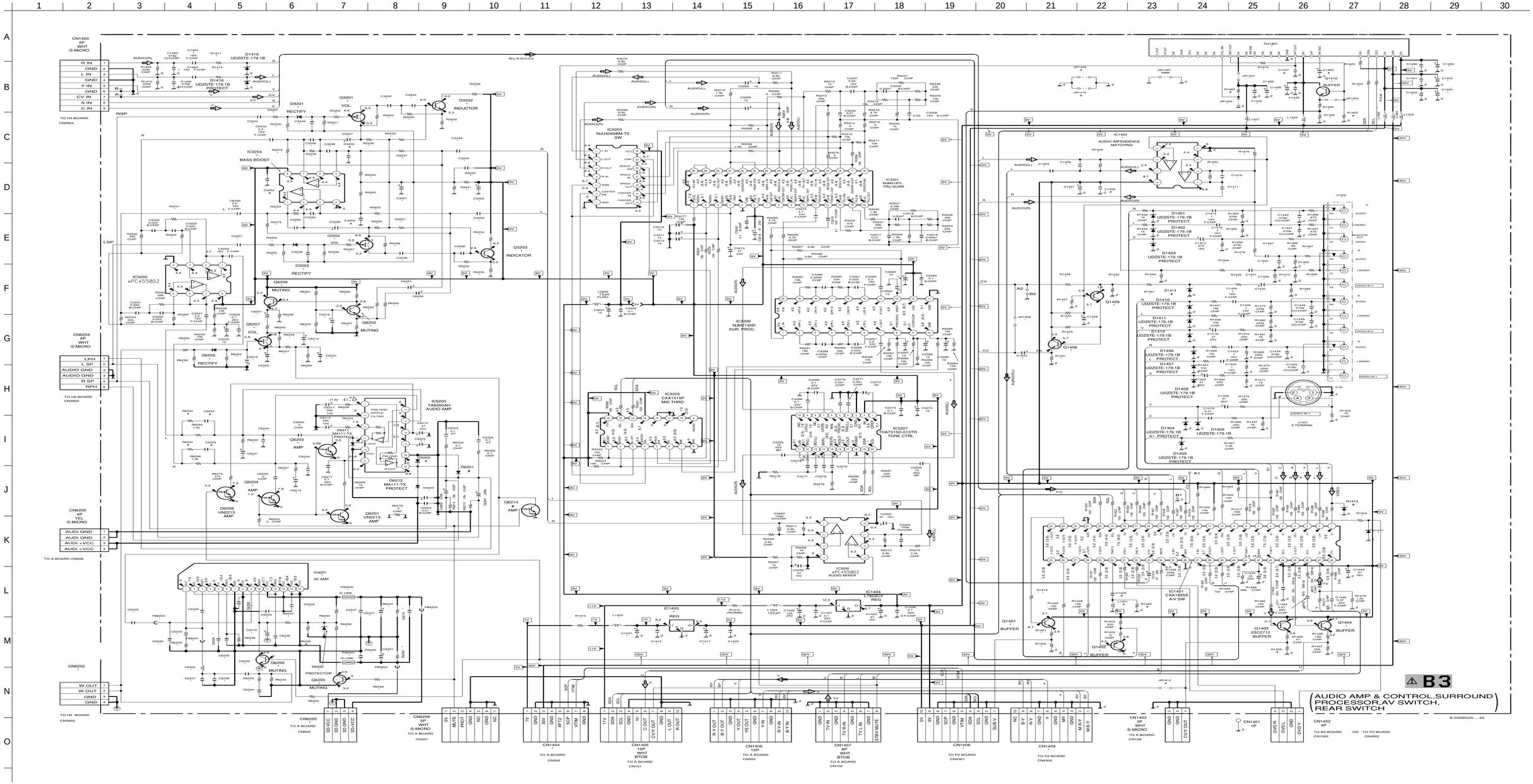
	KV-XS29M80(JE)	KV-XS29M80(ME)
CN1401	1P	#
CN1410	#	TAB
Q3201	2SK246-GR	#

Note) The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

B3 BOARD IC3201 NJM2187L



(3) Schematic Diagram of B3 Board


B3
AUDIO AMP & CONTROL,SURROUND PROCESSOR,AV SWITCH, REAR SWITCH
B-SSB03S-----29
CN1400 9P WHT :S-MICRO
CN6204 6P WHT :S-MICRO
CN6200 4P YEL :S-MICRO
CN6202
CN6205 5P WHT :S-MICRO
CN6206 5P WHT :S-MICRO
CN1404
CN1405 10P WHT BTOB
CN1406 10P
CN1407 8P WHT BTOB
CN408
CN1409
CN1403 3P WHT :S-MICRO
CN1401 1P
CN1402 4P
IC3202 #PC455802
IC3203 NJU4068M-T2 SW
IC3201 NJM2167L TRU-SURR
IC3206 NJM2150D SUR. PROC.
IC3205 CXA1315P MID THRO
IC3207 TDA7315D-013TR TONE CTRL
IC3200 #PC455802 AUDIO MIXER
IC6200 TA8200AH AUDIO AMP
IC6201 3D AMP
IC1402 AUDIO IMPENDENCE MATCHING
IC1403 REG
IC1404 L7809CV REG
IC1401 CXA1855S A/V SW
TU1401
D1401 UDZSTE-179.1B PROTECT
D1402 UDZSTE-179.1B PROTECT
D1403 UDZSTE-179.1B PROTECT
D1404 UDZSTE-179.1B PROTECT
D1405 UDZSTE-179.1B PROTECT
D1406 UDZSTE-179.1B PROTECT
D1407 UDZSTE-179.1B PROTECT
D1408 UDZSTE-179.1B PROTECT
D1409 UDZSTE-179.1B
D1410 UDZSTE-179.1B PROTECT
D1411 UDZSTE-179.1B PROTECT
D1412 UDZSTE-179.1B PROTECT
D1415 UDZSTE-179.1B
D1416 UDZSTE-179.1B PROTECT
D3201 RECTIFY
D3203 RECTIFY
D6205 RECTIFY
Q3201 VOL
Q3202 INDUCTOR
Q3203 INDICATOR
Q3204 VOL
Q6201 MUTING
Q6202 MUTING
Q6203 AMP
Q6204 AMP
Q6205 MUTING
Q6206 MUTING
Q6207 VOL
Q6208 UN2213 AMP
Q6209 MUTING
Q6210 MUTING
Q6211 MUTING
Q6212 MUTING
Q6213 MUTING
Q6214 AMP
Q6215 MUTING
Q1401 BUFFER
Q1402 BUFFER
Q1403 2SC2712 BUFFER
Q1404 BUFFER
Q1408
Q1409
JR1401
JR1402
JR1403
JR1404
JR1405
JR1406
JR1407
JR1408
JR1409
JR1410
JR1411
JR1412
JW1401 SMD
JW1402 SMD
JW1403 SMD
JW1404 SMD
JW1405 SMD
JW1406 SMD
JW1407 SMD
JW1408 SMD
JW1409 SMD
JW1410 SMD
JW1411 SMD
JW1412 SMD
J1401 S TERMINAL
J1402 S TERMINAL
J1403 S TERMINAL
J1404 S TERMINAL
J1405 S TERMINAL
J1406 S TERMINAL
J1407 S TERMINAL
J1408 S TERMINAL
J1409 S TERMINAL
J1410 S TERMINAL
J1411 S TERMINAL
J1412 S TERMINAL
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J1451
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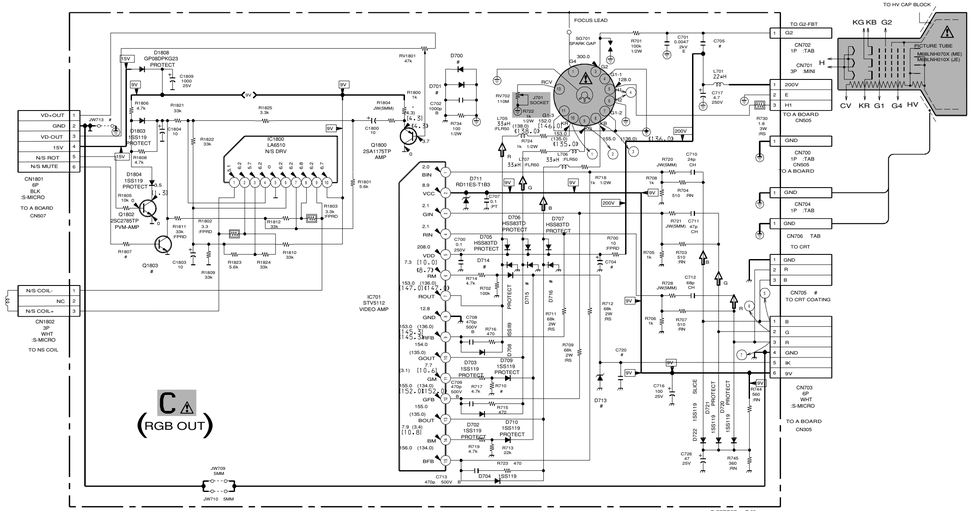
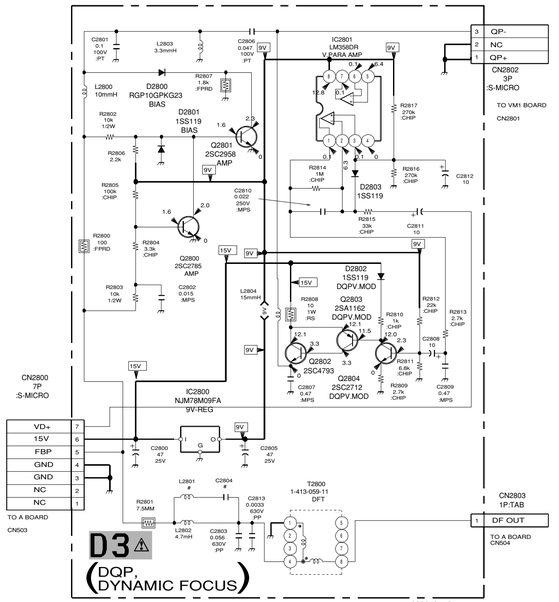
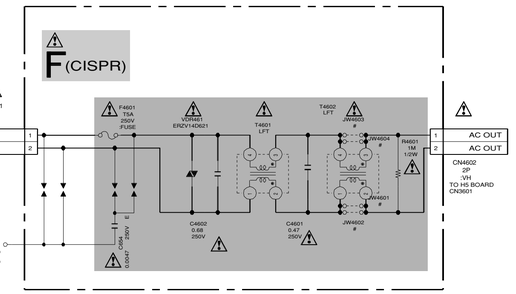
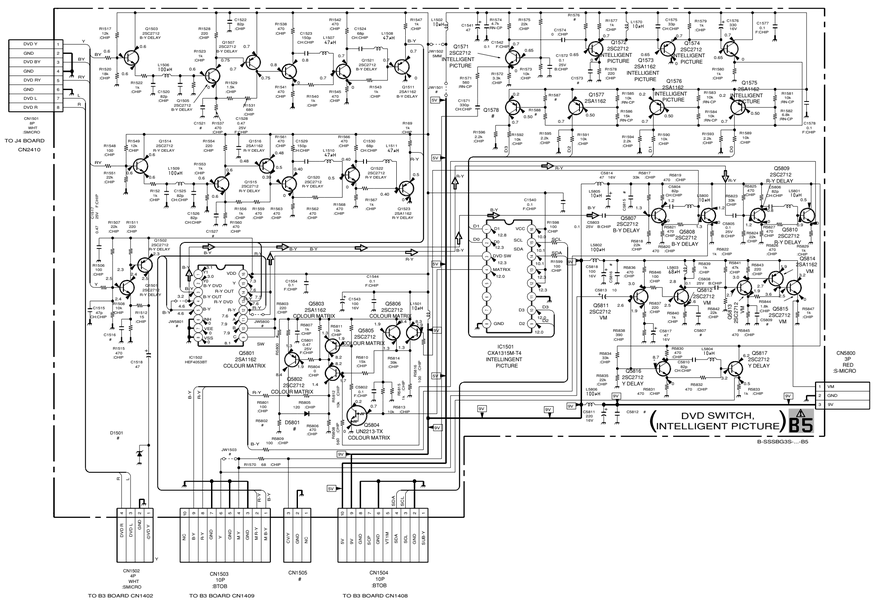
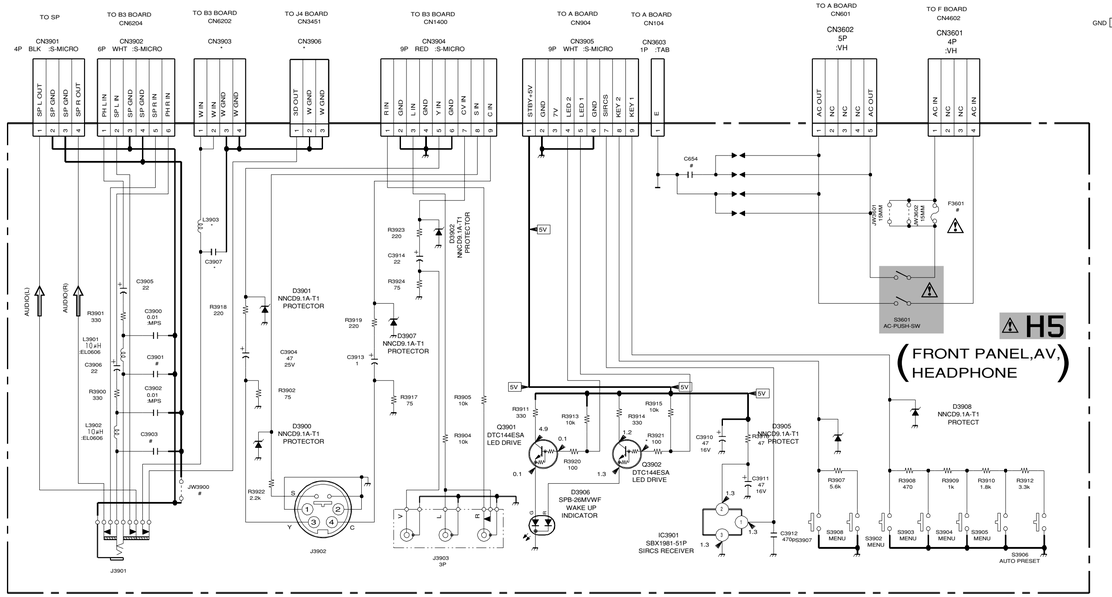
J1489



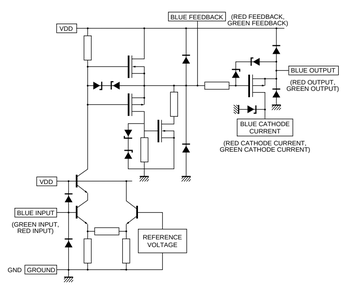




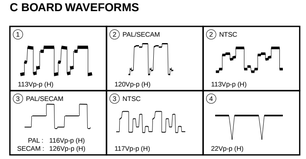




C BOARD IC701 STV5112



C BOARD WAVEFORMS



Bs BOARD ✻ MARK LIST

	KV-XS29M80(3E)	KV-XS29M80(ME)
C5814	47 16V	#
C5820	#	0.1 25V,CHIP
JR5802	#	0 CHIP
L5805	10 µH	#
Q5819	#	2SC2712-YG
Q5818	#	2SC2712-YG
Q5820	#	2SC2712-YG
R5848	#	1K 1/10W
R5849	#	1K 1/10W
R5851	#	1K 1/10W
R5850	#	1K 1/10W

Note) The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

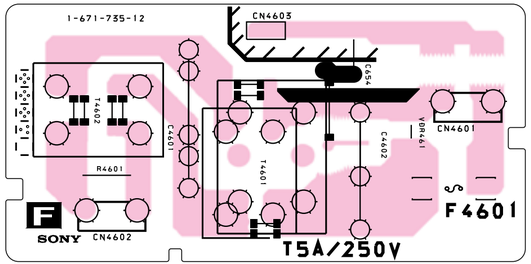
KV-XS29M80
RM-954
KV-XS29M80
RM-954

B5 [DVD SWITCH, INTELLIGENT PICTURE] **C** [RGB OUT, ROTATION CIRCUIT] **D3** [DF, DQP DRIVE]

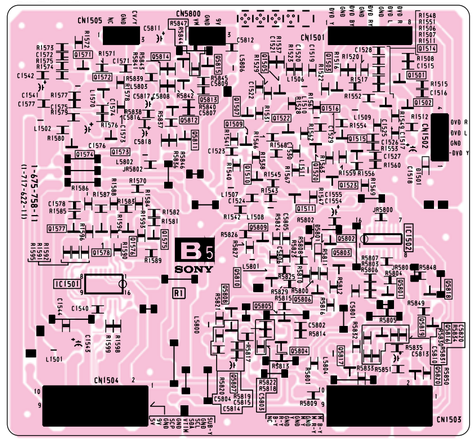
H5 [FRONT PANEL, AV, HEADPHONE] **F** [CISPR]

PRINTED WIRING BOARDS

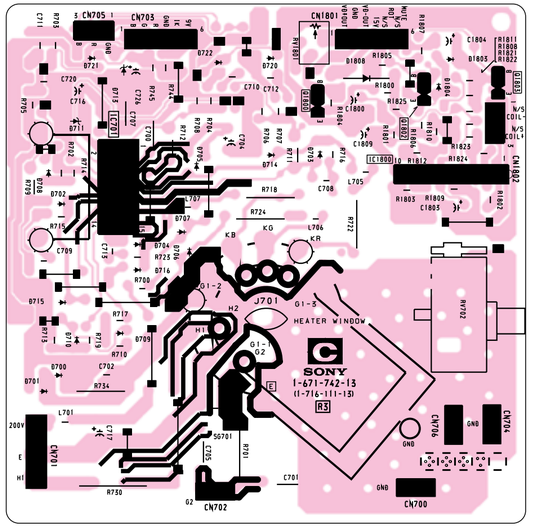
– F Board –



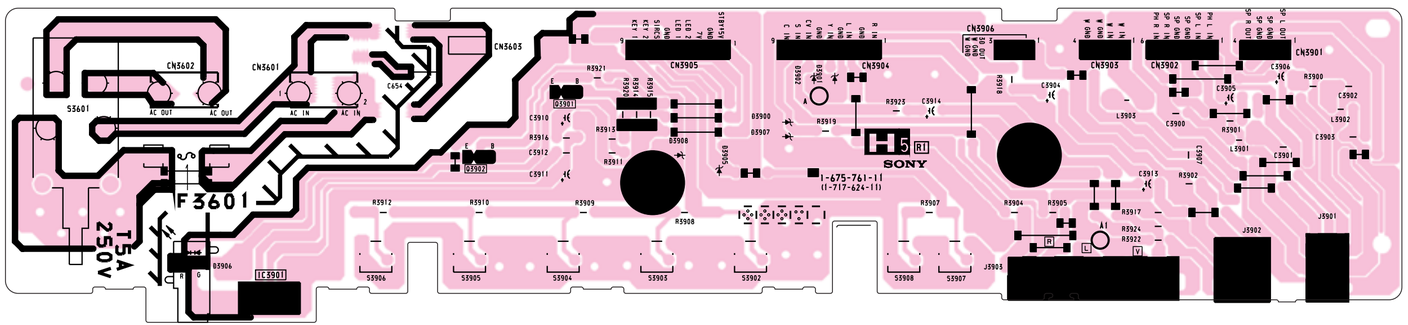
– B5 Board –



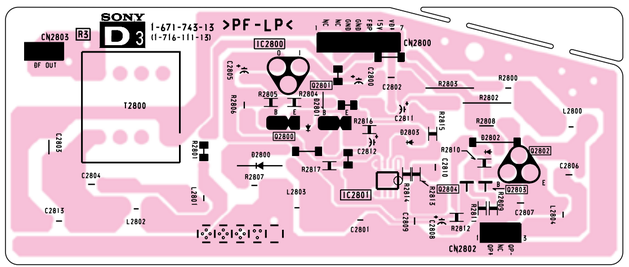
– C Board –



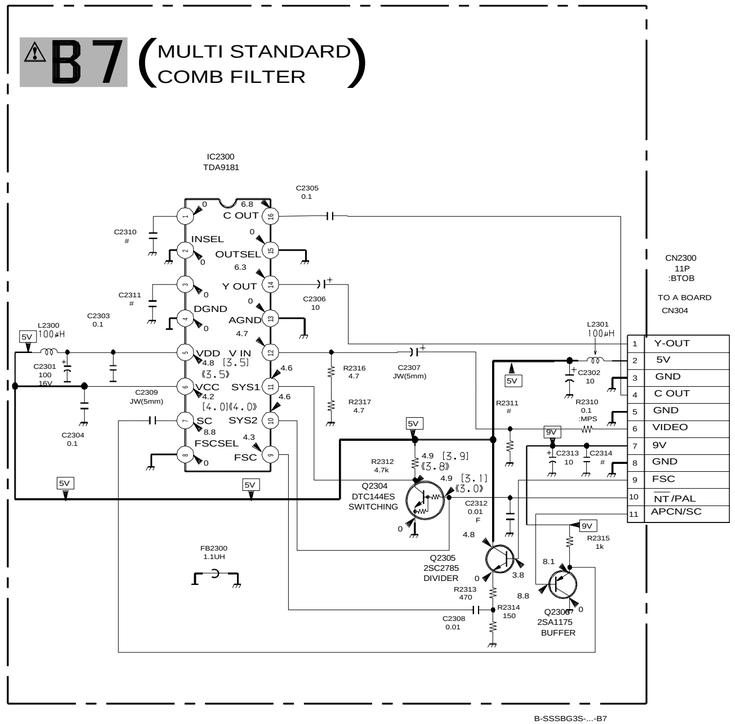
– H5 Board –

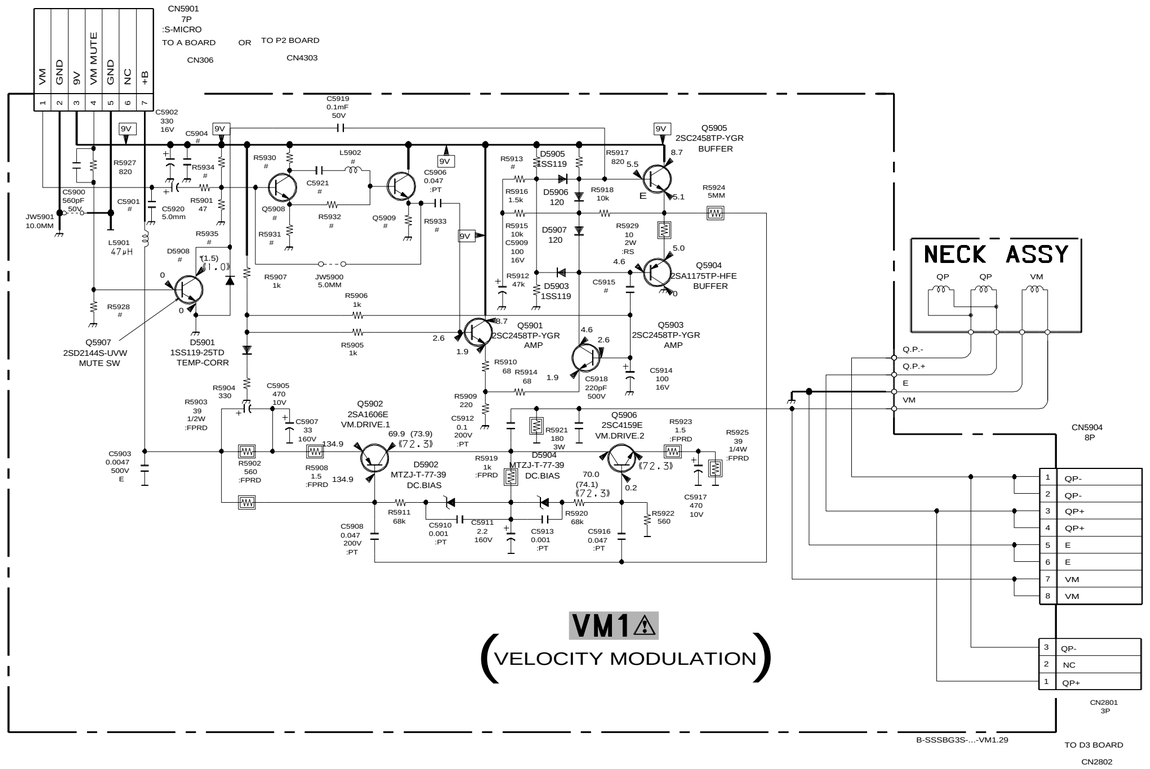


– D3 Board –



Schematic diagrams
B7 VM1 boards ➡

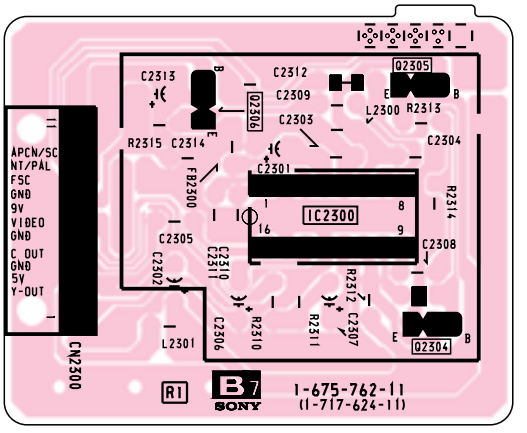

B7 (MULTI STANDARD COMB FILTER)
IC2300
TDA9181
C OUT
INSEL
OUTSEL
Y OUT
DGND
AGND
VDD
V IN
VCC
SYS1
SC
SYS2
FSCSEL
FSC
CN2300
11P
:BTOB
TO A BOARD
CN304
1 Y-OUT
2 5V
3 GND
4 C OUT
5 GND
6 VIDEO
7 9V
8 GND
9 FSC
10 NT/PAL
11 APCN/SC
Q2304
DTC144ES
SWITCHING
Q2305
2SC2785
DIVIDER
Q2306
2SA1175
BUFFER
FB2300
1.1UH
B-SSSBG3S-...-B7


CN5901
7P
:S-MICRO
TO A BOARD
OR
TO P2 BOARD
CN4303
CN306
VM
GND
9V
VM MUTE
GND
NC
+B
Q5907
2SD2144S-UVW
MUTE SW
D5901
1SS119-25TD
TEMP-CORR
Q5901
2SC2458TP-YGR
AMP
Q5902
2SA1606E
VM.DRIVE.1
D5902
MTZJ-T-77-39
DC.BIAS
Q5903
2SC2458TP-YGR
AMP
D5904
MTZJ-T-77-39
DC.BIAS
Q5906
2SC4159E
VM.DRIVE.2
Q5905
2SC2458TP-YGR
BUFFER
Q5904
2SA1175TP-HFE
BUFFER
VM1
(VELOCITY MODULATION)
NECK ASSY
QP
QP
VM
Q.P.-
Q.P.+
E
VM
CN5904
8P
1 QP-
2 QP-
3 QP+
4 QP+
5 E
6 E
7 VM
8 VM
CN2801
3P
3 QP-
2 NC
1 QP+
TO D3 BOARD
CN2802
B-SSSBG3S-...-VM1.29

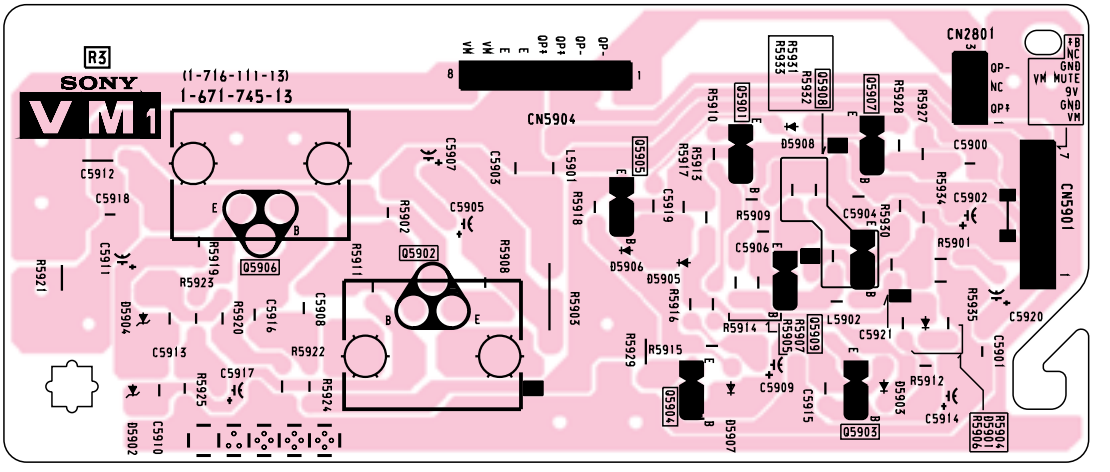
B7 [MULTI STANDARD, COMB FILTER] **VM1** [VELOCITY MODULATION]

PRINTED WIRING BOARDS

– B7 Board –



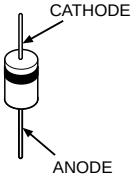
– VM1 Board –



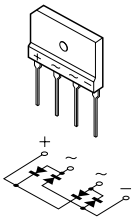
5-5. SEMICONDUCTORS

DIODE

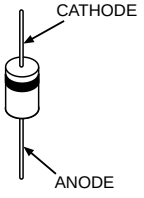
AK04V0
AU-01Z-V1
D2L20U
EL1Z
ERA22-08
GP08D
HSS83TD
NNCD9.1A-T1
RD33EB3T
RGP02-17EL-6433



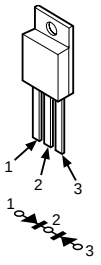
D3SB60



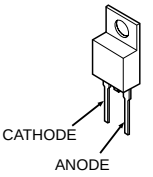
ERC04-06S
RS3FS
RU4AM-T4



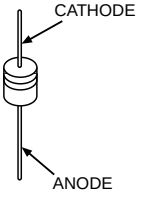
FMU-G26S
FMX-12S



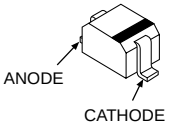
D5S6M



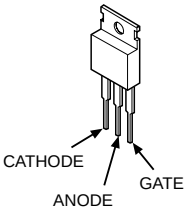
D1NS4
D1N20R
RD11ES-B3
RD20ES-B2
RD30ESB2
RD39ES-B2
RD6.8ES-B1
1SS119-25



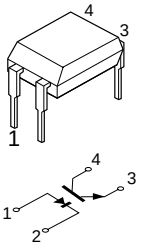
DTZ10B
DTZ-TT11-15B
UDZS-TE17-5.1B
UDZS-TE17-9.1B
MA111-(K8).S0
RD7.5SB-T1
1SS355TE-17



5P6M

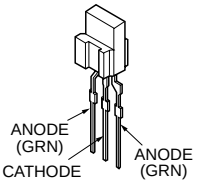


ON3171-R



LED

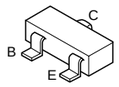
SPB-26MVWF



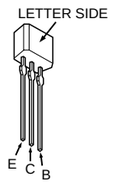
KV-XS29M80
RM-954

TRANSISTOR

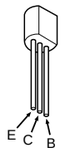
UN2111
UN2211
UN2213
2SA1162-G
2SC2712-YG
2SD2114K



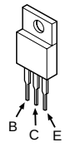
DTC144ESA
2SA1175-HFE
2SC2785-HFE



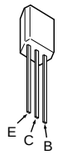
2SA1091-0



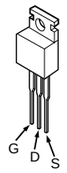
2SA1606-E
2SC4159-E
2SC4793



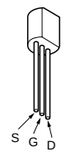
2SC2458-YGR
2SD2144S-UVW



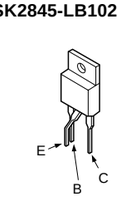
IRF614



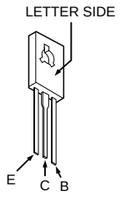
2SK246-GR



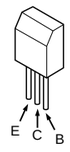
2SK2845-LB102



2SC2958

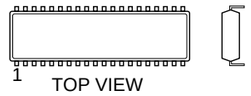


2SC2688-LK



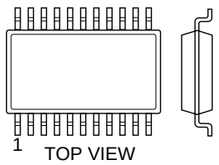
IC

CXA1315M (16PIN)
CXA1315P (16PIN)
CXA1855S (48PIN)
CXA2139S (48PIN)
CXP750097-011S (64PIN)
NJM2150D (20PIN)
NJM2187L (30PIN)
M24C08-BN6 (8PIN)
STV5112 (15PIN)
TDA9181 (32PIN)



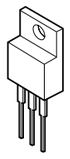
Dual In-line Package
Pin 6～98

LM358D (8PIN)
MM1319AFBE (7PIN)
NJM2903M (8PIN)
NJU4066BM (14PIN)
TDA7315D013TR (20PIN)
μPC4558G2 (8PIN)

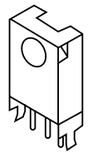


Single In -line Package
Pin 6～98

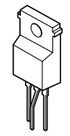
NJM78M09FA
TA7805S



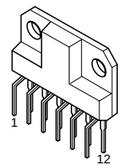
SBX1981-51P



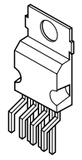
SE-135N



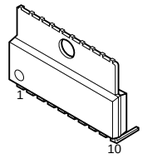
TA8200AH



TDA8172

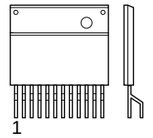


LA6510



STR-F6656

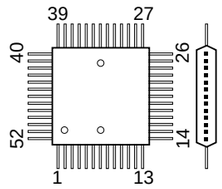
MARKING SIDE VIEW



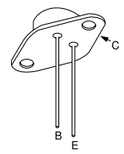
Zig-zag In -line Package
Pin 6～99

RU-1P

MARKING SIDE
VIEW



2SD2578-CA



KV-XS29M80
RM-954

SECTION 6
EXPLODED VIEWS

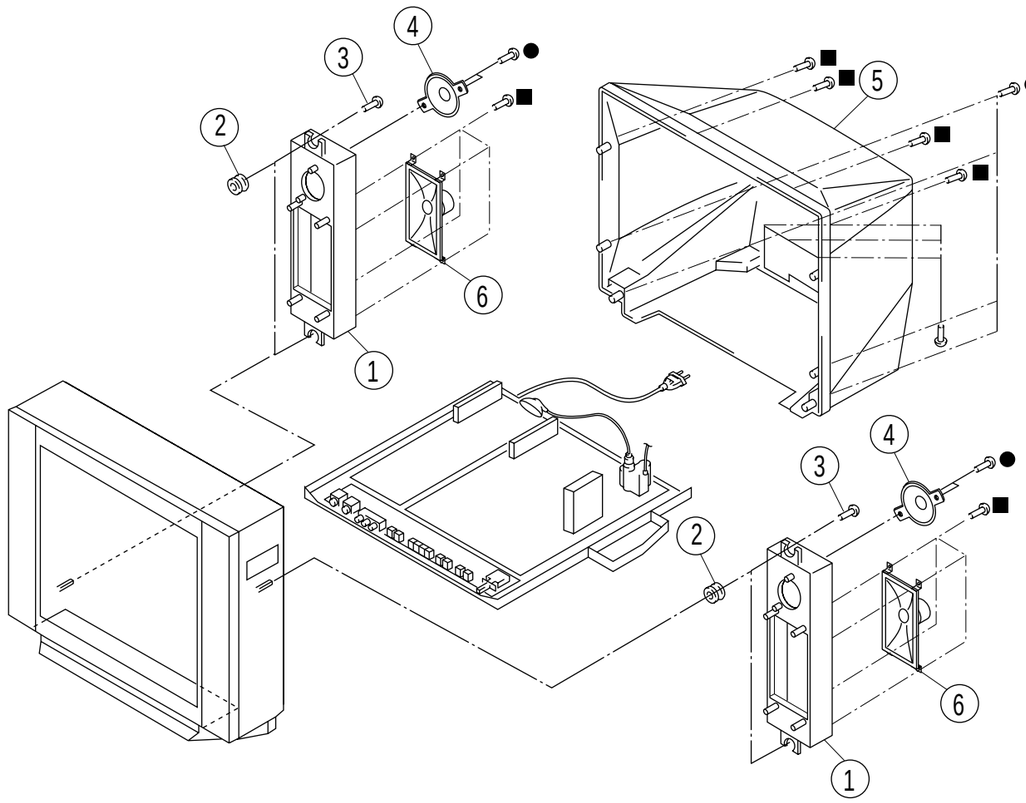
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "＊" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. SPEAKER BRACKET

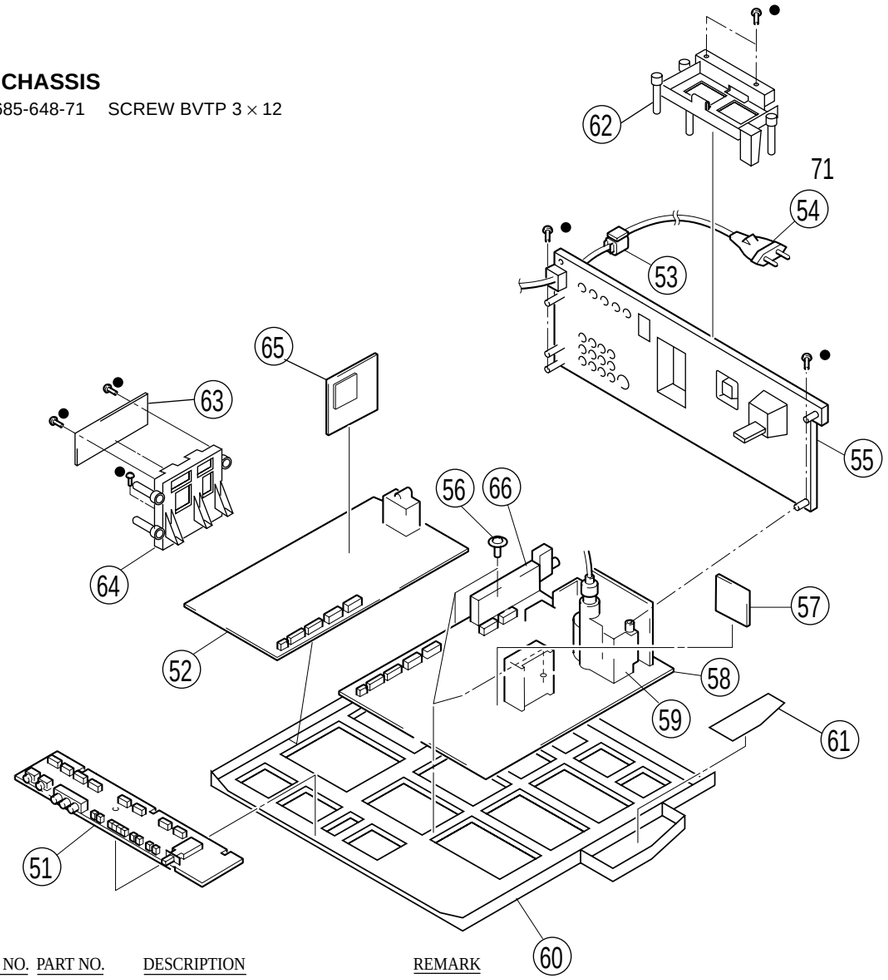
■: 7-685-663-71 SCREW +BVTP 4 × 16
●: 7-685-648-71 SCREW +BVTP 3 × 12



REF. NO.		PART NO.	DESCRIPTION	REMARK
1	*	4-070-757-01	BRACKET, SP	
2		4-374-745-21	CUSHION (A)	
3		4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
4		1-529-190-11	SPEAKER (5CM)	
5	⚠	4-065-506-02	COVER, REAR	
6		1-529-563-11	SPEAKER (15X6.5CM)	

6-2. CHASSIS

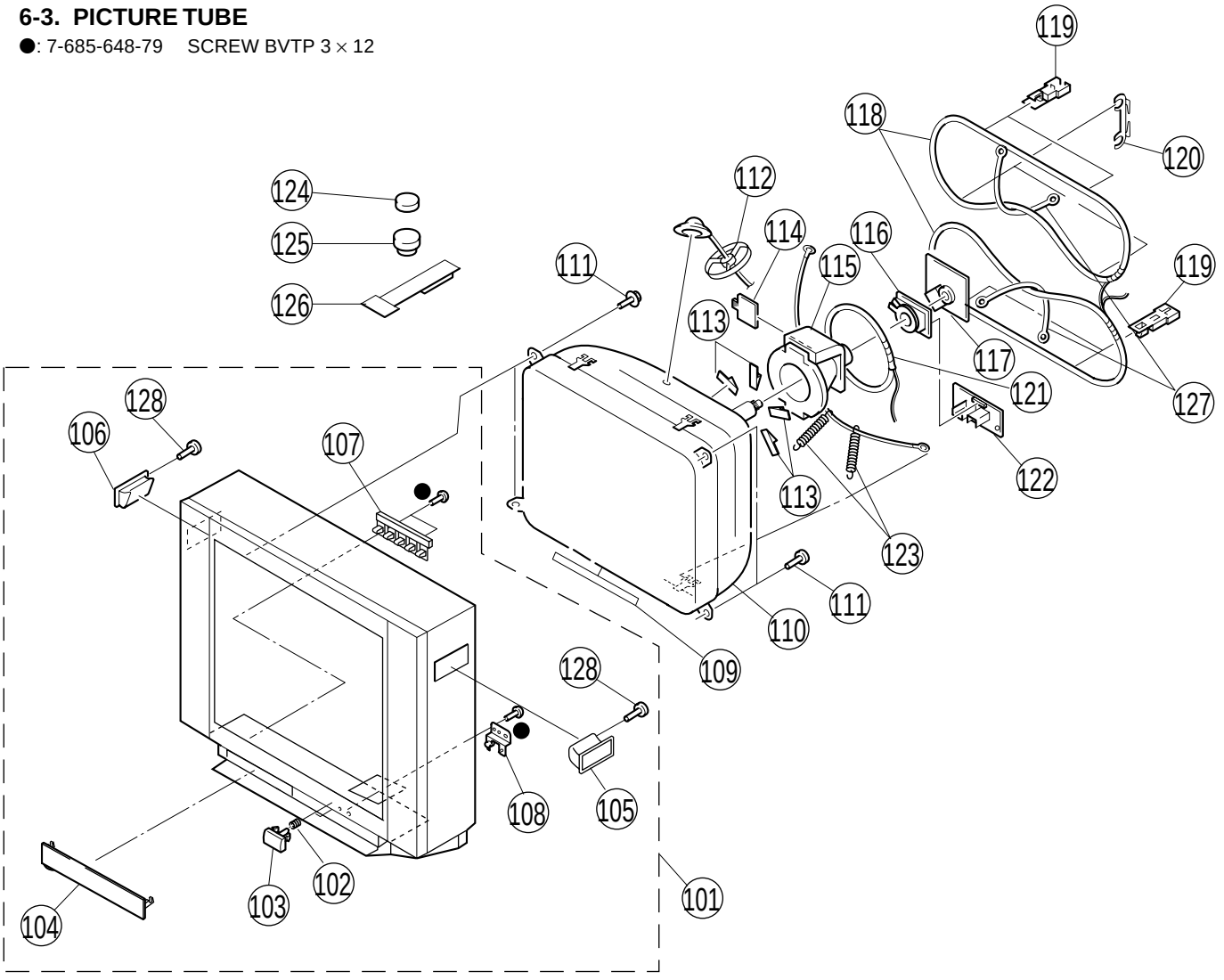
●: 7-685-648-71 SCREW BVTP 3 × 12



REF. NO.		PART NO.	DESCRIPTION	REMARK
51	*	A-1372-755-A	H5 BOARD MOUNTED (FOR ME)	
	*	A-1372-777-A	H5 BOARD MOUNTED (FOR JE)	
52	*	A-1136-055-A	B3 BOARD COMPLETE (FOR ME)	
	*	A-1136-082-A	B3 BOARD COMPLETE (FOR JE)	
53		4-022-115-00	HOLDER, AC CORD	
54	⚠	1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V	
55	*	4-066-684-21	BRACKET, TERMINAL	
56		4-046-797-01	SCREW (3X12), (+)BVTAP	
57	*	A-1131-500-A	B7 BOARD MOUNTED (FOR ME)	
	*	A-1131-560-A	B7 BOARD MOUNTED (FOR JE)	
58	*	A-1299-070-A	A BOARD COMPLETE (FOR ME)	
	*	A-1299-150-A	A BOARD COMPLETE (FOR JE)	
59	⚠	1-453-284-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M3I4)	
60	*	4-066-681-04	BRACKET, MAIN	
61	*	A-1343-745-A	D3 BOARD MOUNTED (FOR ME)	
	*	A-1343-808-A	D3 BOARD MOUNTED (FOR JE)	
62	*	4-066-683-11	HOLDER, PWB	
63	*	A-1241-346-A	F BOARD MOUNTED (FOR ME)	
	*	A-1241-411-A	F BOARD MOUNTED (FOR JE)	
64	*	4-066-682-01	BRACKET, F PWB	
65	*	A-1131-506-A	B5 BOARD MOUNTED (FOR ME)	
	*	A-1131-558-A	B5 BOARD MOUNTED (FOR JE)	
66		8-598-449-10	TUNER, FSS BTF-LG433	

6-3. PICTURE TUBE

●: 7-685-648-79 SCREW BVTP 3 × 12



REF. NO.		PART NO.	DESCRIPTION	REMARK
101		X-4037-231-1	BEZNET, ASSY (FOR ME) 102-108, 128	
		X-4037-523-1	BEZNET ASSY (FOR JE) 102-108, 128	
102		4-036-405-11	SPRING, COMPRESSION	
103		4-070-752-01	BUTTON, POWER	
104		4-070-754-31	CONTROL, DOOR	
105		X-4035-862-4	HANDLE ASSY (R)	
106		X-4035-861-4	HANDLE ASSY (L)	
107		4-070-753-01	BUTTON, MULTI	
108	*	4-070-755-01	BAR, OPTICAL	
109		4-072-569-11	SHEET, BLOTTING (FOR ME)	
		4-358-725-01	SHEET, BLOTTING (FOR JE)	
110	⚠	8-735-057-05	PICTURE TUBE (M68LNH070X) (FOR ME)	
	⚠	8-735-057-05	PICTURE TUBE (M68LNH010X) (FOR JE)	
111		4-046-765-01	SCREW, TAPPING 7+CROWN WASHER (FOR ME)	
		4-065-765-02	SCREW, TAPPING 7+CROWN WASHER (FOR JE)	
112	*	3-704-372-11	HOLDER, HV CABLE (FOR ME)	
	*	3-704-372-01	HOLDER, HV CABLE (FOR JE)	
113		3-703-961-01	SPACER, DY (FOR JE)	
		4-072-365-01	SPACER, DY (FOR ME)	
114		2-163-920-01	PLATE, TLH CORRECTION	
115	⚠	8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
116		8-453-011-11	NA299-M	
117	*	A-1331-999-A	C BOARD MOUNTED (FOR ME)	
	*	A-1332-031-A	C BOARD MOUNTED (FOR JE)	
118	⚠	1-419-294-12	COIL, DEGAUSSING	
119	*	4-062-970-11	CLIP (29RSN), DGC (FOR ME)	
	*	4-062-970-01	CLIP (29RSN), DGC (FOR JE)	
120		4-064-883-03	HOLDER, DGC (FOR JE)	
		4-064-883-11	HOLDER, DGC (FOR ME)	
121		1-452-896-11	COIL, NA ROTATION (RT200)	
122	*	A-1342-530-A	VM1 BOARD MOUNTED (FOR ME)	
	*	A-1342-527-A	VM1 BOARD MOUNTED (FOR JE)	
123		4-369-318-61	SPRING, TENSION	
124		1-452-032-00	MAGNET,DISC	
125		1-452-094-00	CIRCULAR DISC MAGNET B	
126		X-4387-214-3	PERMALOY ASSY, CORRECTION	
		4-051-734-12	PIECE B(120), CONV. CORRECT (FOR JE)	
127		4-068-028-02	BAND, DGC (FOR JE)	
		4-068-028-32	BAND, DGC (FOR ME)	
128		4-058-870-01	SCREW, (4X16) W (+) P TAPPING	
129		4-063-935-41	CUSHION (50X550) DGC (ME)	
		4-076-041-01	CUSHION (50X550) DGC (JE)	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : mH, UH : µH

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1299-070-A	A BOARD, COMPLETE (FOR ME)			
		**********			
*	A-1299-150-A	A BOARD, COMPLETE (FOR JE)			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
		<CAPACITOR>			
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C007	1-104-664-11	ELECT	47MF	20%	16V
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C014	1-104-664-11	ELECT	47MF	20%	25V
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C019	1-104-664-11	ELECT	47MF	20%	25V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C030	1-126-965-11	ELECT	22MF	20%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C104	1-104-665-11	ELECT	100MF	20%	10V
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C108	1-104-664-11	ELECT	47MF	20%	16V
C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-104-664-11	ELECT	47MF	20%	16V
C113	1-104-664-11	ELECT	47MF	20%	25V
C114	1-126-967-11	ELECT	47MF	20%	50V
C300	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C301	1-126-935-11	ELECT	470MF	20%	16V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C303	1-126-959-11	ELECT	0.47MF	20%	50V
C304	1-126-967-11	ELECT	47MF	20%	50V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C309	1-126-957-11	ELECT	0.22MF	20%	50V
C311	1-126-964-11	ELECT	10MF	20%	50V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V
C313	1-164-346-11	CERAMIC CHIP	1MF		16V
C314	1-164-346-11	CERAMIC CHIP	1MF		16V
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C316	1-126-934-11	ELECT	220MF	20%	16V
C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C321	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C325	1-126-960-11	ELECT	1MF	20%	50V
C327	1-126-965-11	ELECT	22MF	20%	50V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-126-963-11	ELECT	4.7MF	20%	50V
C332	1-126-963-11	ELECT	4.7MF	20%	50V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C337	1-126-961-11	ELECT	2.2MF	20%	50V
C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C503	1-126-964-11	ELECT	10MF	20%	50V
C506	1-107-638-11	ELECT	33MF	20%	160V
C507	1-161-830-00	CERAMIC	0.0047MF		500V
C510	1-102-112-00	CERAMIC	330PF	10%	50V
C513	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C514	1-106-383-00	MYLAR	0.047MF	10%	200V
C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C518	1-104-665-11	ELECT	100MF	20%	10V
C519	1-102-212-00	CERAMIC	820PF	10%	500V
C521	1-126-934-11	ELECT	220MF	20%	16V
C522	1-126-933-11	ELECT	100MF	20%	16V
C523	1-102-002-00	CERAMIC	680PF	10%	500V
C524	1-126-967-11	ELECT	47MF	20%	50V
C526	1-130-495-00	MYLAR	0.1MF	5%	50V
C527	1-102-820-00	CERAMIC	330PF	5%	50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A

REF. NO.		PART NO.	DESCRIPTION			REMARK
C528		1-162-116-00	CERAMIC	680PF	10%	2KV
C530		1-137-372-11	MYLAR	0.022MF	5%	50V
C531		1-107-903-11	ELECT	2.2MF	20%	50V
C532		1-126-941-11	ELECT	470MF	20%	25V
C533		1-126-941-11	ELECT	470MF	20%	25V
C536		1-136-165-00	MYLAR	0.1MF	5%	50V
C537		1-126-969-11	ELECT	220MF	20%	50V
C538		1-127-717-11	CAPACITOR	000000000	0	0
C539		1-129-723-00	FILM	0.056MF	5%	630V
C540		1-136-171-00	MYLAR	0.33MF	5%	50V
C546		1-165-319-11	CERAMIC CHIP	0.1MF		50V
C549		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C550		1-106-220-00	MYLAR	0.1MF	10%	100V
C551		1-126-960-11	ELECT	1MF	20%	50V
C552		1-162-116-00	CERAMIC	680PF	10%	2KV
C553		1-162-116-00	CERAMIC	680PF	10%	2KV
C554		1-137-417-11	MYLAR	0.0047MF	10%	200V
C556		1-126-941-11	ELECT	470MF	20%	25V
C557		1-126-941-11	ELECT	470MF	20%	25V
C558		1-123-024-21	ELECT	33MF		160V
C560		1-102-228-00	CERAMIC	470PF	10%	500V
C561		1-129-898-00	FILM	0.0022MF	5%	630V
C562		1-102-228-00	CERAMIC	470PF	10%	500V
C564		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C565		1-107-655-11	ELECT	47MF	20%	250V
C566		1-102-244-00	CERAMIC	220PF	10%	500V
C567		1-115-520-11	FILM	0.68MF	5%	250V
C568		1-102-228-00	CERAMIC	470PF	10%	500V
C570		1-115-522-11	FILM	1MF	5%	250V
C572		1-117-661-21	FILM	0.15MF	5%	250V
C573		1-106-387-00	MYLAR	0.068MF	10%	200V
C574		1-104-709-11	ELECT	4.7MF	0	160V
C576		1-130-495-00	MYLAR	0.1MF	5%	50V
C577		1-106-395-00	MYLAR	0.15MF	10%	200V
C582		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C584		1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C586		1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C600	⚠	1-104-705-51	MYLAR	0.1MF	20%	250V
C602	⚠	1-104-705-51	MYLAR	0.1MF	20%	250V
C603		1-104-664-11	ELECT	47MF	20%	25V
C604		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C605	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C606	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C607		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C609		1-126-968-11	ELECT	100MF	20%	50V
C610		1-126-964-11	ELECT	10MF	20%	50V
C611		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C612		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C613		1-125-906-11	ELECT	560MF	20%	450V
C614		1-126-964-11	ELECT	10MF	20%	50V
C615	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C616		1-130-202-00	FILM	0.022MF	5%	400V
C617		1-107-792-11	CERAMIC	100PF	5%	1KV
C618		1-125-893-11	FILM	680PF	3%	1.5KV
C619	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C620		1-163-133-00	CERAMIC CHIP	470PF	5%	50V

REF. NO.		PART NO.	DESCRIPTION			REMARK
C621		1-102-114-00	CERAMIC	470PF	10%	50V
C622		1-102-119-00	CERAMIC	0.0015MF	10%	50V
C623		1-104-665-11	ELECT	100MF	20%	25V
C624		1-125-772-91	CERAMIC	1500PF	10%	2KV
C625		1-102-002-00	CERAMIC	680PF	10%	500V
C626		1-102-002-00	CERAMIC	680PF	10%	500V
C629		1-126-964-11	ELECT	10MF	20%	50V
C630		1-125-494-11	ELECT(BLOCK)	560MF	20%	160V
C631		1-128-550-11	ELECT	2200MF	20%	50V
C632		1-128-339-11	ELECT	2200MF	20%	16V
C633		1-104-999-11	MYLAR	0.1MF	10%	200V
C634		1-126-933-11	ELECT	100MF	20%	16V
C635		1-104-665-11	ELECT	100MF	20%	10V
C636		1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C638		1-161-830-00	CERAMIC	0.0047MF		500V
C641		1-102-002-00	CERAMIC	680PF	10%	500V
C642		1-126-943-11	ELECT	2200MF	20%	25V
C643		1-104-665-11	ELECT	100MF	20%	10V
C644		1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C645		1-137-605-11	MYLAR	0.01MF	10%	250V
C646		1-107-679-91	ELECT	10MF	20%	450V
C647		1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C649		1-126-940-11	ELECT	330MF	20%	25V
C650		1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C651		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C652		1-126-965-11	ELECT	22MF	20%	50V
C653		1-104-664-11	ELECT	47MF	20%	25V
C655	⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C657		1-101-821-00	CERAMIC	0.0022MF		500V
C912		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C913		1-104-665-11	ELECT	100MF	20%	10V

<CONNECTOR>

CN101	*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P
CN102	*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P
CN104		1-695-915-11	TAB (CONTACT)
CN105	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN106	*	1-564-506-11	PLUG, CONNECTOR 3P
CN201	*	1-564-508-11	PLUG, CONNECTOR 5P
CN202	*	1-508-847-00	PIN, CONNECTOR 4P
CN303	*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P
CN304	*	1-766-955-11	CONNECTOR, BOARD TO BOARD 11P
CN305	*	1-564-509-11	PLUG, CONNECTOR 6P
CN501	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN502	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN503	*	1-564-510-11	PLUG, CONNECTOR 7P
CN504		1-695-915-11	TAB (CONTACT)
CN505	*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P
CN507	*	1-564-509-11	PLUG, CONNECTOR 6P
CN508		1-695-915-11	TAB (CONTACT)
CN601	*	1-580-843-11	PIN, CONNECTOR (POWER)
CN602	*	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CN603	*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN604	*	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN608	*	1-564-507-11	PLUG, CONNECTOR 4P
CN904	*	1-564-512-11	PLUG, CONNECTOR 9P

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D001	8-719-988-61	DIODE 1SS355TE-17	
D002	8-719-988-61	DIODE 1SS355TE-17	
D004	1-216-295-91	SHORT 0	
D005	8-719-988-61	DIODE 1SS355TE-17	
D006	1-216-295-91	SHORT 0	
D300	1-216-295-91	SHORT 0	
D301	8-719-988-61	DIODE 1SS355TE-17	
D303	8-719-988-61	DIODE 1SS355TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D305	8-719-988-61	DIODE 1SS355TE-17	
D306	8-719-988-61	DIODE 1SS355TE-17	
D307	8-719-988-61	DIODE 1SS355TE-17	
D308	8-719-988-61	DIODE 1SS355TE-17	
D309	8-719-069-54	DIODE UDZS-TE17-5.1B	
D311	8-719-988-61	DIODE 1SS355TE-17	
D312	8-719-988-61	DIODE 1SS355TE-17	
D313	8-719-988-61	DIODE 1SS355TE-17	
D315	8-719-988-61	DIODE 1SS355TE-17	
D316	8-719-037-06	DIODE RD7.5SB1-T1	
D320	8-719-069-60	DIODE UDZS-TE17-9.1B	
D321	8-719-069-60	DIODE UDZS-TE17-9.1B	
D504	8-719-302-43	DIODE EL1Z	
D505	8-719-988-61	DIODE 1SS355TE-17	
D506	8-719-911-19	DIODE 1SS119-25	
D507	8-719-988-61	DIODE 1SS355TE-17	
D508	8-719-988-61	DIODE 1SS355TE-17	
D509	1-216-073-00	RES,CHIP 10K 5%	1/10W
D510	8-719-988-61	DIODE 1SS355TE-17	
D511	8-719-988-61	DIODE 1SS355TE-17	
D512	8-719-988-61	DIODE 1SS355TE-17	
D513	8-719-908-03	DIODE GP08D	
D517	8-719-312-71	DIODE RS3FS	
D518	8-719-074-35	DIODE RU4AM-T4	
D519	8-719-312-71	DIODE RS3FS	
D521	8-719-302-43	DIODE EL1Z	
D522	8-719-028-45	DIODE D2L20U	
D523	8-719-302-43	DIODE EL1Z	
D527	8-719-908-03	DIODE GP08D	
D528	8-719-908-03	DIODE GP08D	
D531	8-719-988-61	DIODE 1SS355TE-17	
D532	8-719-988-61	DIODE 1SS355TE-17	
D534	8-719-988-61	DIODE 1SS355TE-17	
D600	8-719-911-19	DIODE 1SS119-25	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-150-92	DIODE RD33EB3T	
D604	8-719-028-72	DIODE RGP02-17EL-6433	
D605	8-719-052-84	DIODE LN4SB60	
D605	8-719-510-22	DIODE D3SB60	
D606	8-719-108-18	THYRISTOR 5P6M	
D607	8-719-073-01	DIODE MA111-(K8).S0	
D608	8-719-110-53	DIODE RD20ESB2	
D609	8-719-311-31	DIODE RU-1P	
D610	8-719-043-76	DIODE AK04V0	
D611	8-719-046-74	DIODE AU-01Z-V1	
D612	8-719-071-38	DIODE D5S6M	
D613	8-719-046-74	DIODE AU-01Z-V1	
D614	8-719-046-74	DIODE AU-01Z-V1	
D620	8-719-110-72	DIODE RD30ESB2	
D621	8-719-071-38	DIODE D5S6M	
D622	8-719-071-39	DIODE FMU-G26S	
D623	8-719-978-65	DIODE DTZ-TT11-15B	
D624	8-719-073-01	DIODE MA111-(K8).S0	
D625	8-719-977-28	DIODE DTZ10B	
D628	8-719-911-19	DIODE 1SS119-25	
D630	8-719-052-74	DIODE FMX-12S	
D631	8-719-068-00	DIODE ERC04-06SE	
D632	8-719-068-00	DIODE ERC04-06SE	
D633	8-719-948-45	DIODE ERA22-08	
D634	8-719-073-01	DIODE MA111-(K8).S0	
D635	8-719-073-01	DIODE MA111-(K8).S0	
D636	8-719-510-02	DIODE D1NS4	
D637	8-719-109-96	DIODE RD6.8ESB1	
D638	8-719-510-48	DIODE D1N20R	
		<CONNECTOR>	
DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
		<FERRITE BEAD>	
FB501	1-410-397-21	FERRITE 1.1UH	
FB502	1-410-397-21	FERRITE 1.1UH	
FB600	1-410-397-21	FERRITE 1.1UH	
FB601	1-410-397-21	FERRITE 1.1UH	
FB602	1-410-397-21	FERRITE 1.1UH	
FB603	1-410-397-21	FERRITE 1.1UH	
FB604	1-412-911-31	FERRITE 0UH	
FB605	1-412-911-31	FERRITE 0UH	
FB606	1-412-911-31	FERRITE 0UH	
FB608	1-412-911-31	FERRITE 0UH	
FB611	1-410-397-21	FERRITE 1.1UH	
FB612	1-410-397-21	FERRITE 1.1UH	
FB613	1-410-397-21	FERRITE 1.1UH	
FB615	1-410-397-21	FERRITE 1.1UH	
		<IC>	
IC001	8-752-913-41	IC CXP750097-020S	
IC002	8-759-371-21	IC MM1319AFBE	
IC003	8-759-527-71	IC M24C08-BN6	
IC301	8-752-090-41	IC CXA2139S	
IC502	8-759-700-07	IC NJM2903M	
IC503	8-759-980-58	IC TDA8172	
IC601	8-749-014-48	IC STR-F6656	
IC602	8-749-920-61	IC SE-135N	
IC603	8-759-701-59	IC NJM78M09FA	
IC604	8-759-231-53	IC TA7805S	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	SHORT 0	
JR002	1-216-295-91	SHORT 0	
JR004	1-216-295-91	SHORT 0	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK
JR005	1-216-295-91	SHORT	0	
JR006	1-216-295-91	SHORT	0	
JR008	1-216-295-91	SHORT	0	
JR010	1-216-295-91	SHORT	0	
JR012	1-216-295-91	SHORT	0	
JR014	1-216-295-91	SHORT	0	
JR015	1-216-295-91	SHORT	0	
JR016	1-216-295-91	SHORT	0	
JR102	1-216-295-91	SHORT	0	
JR109	1-216-295-91	SHORT	0	
JR308	1-216-295-91	SHORT	0	
JR309	1-216-295-91	SHORT	0	
JR500	1-216-295-91	SHORT	0	
JR501	1-216-295-91	SHORT	0	
JR502	1-216-295-91	SHORT	0	
JR503	1-216-295-91	SHORT	0	
JR600	1-216-295-91	SHORT	0	
		<COIL>		
L002	1-414-856-11	INDUCTOR	10UH	
L003	1-414-180-11	INDUCTOR	3.3UH	
L005	1-414-233-22	INDUCTOR CHIP	0UH	
L101	1-414-856-11	INDUCTOR	10UH	
L102	1-414-856-11	INDUCTOR	10UH	
L103	1-414-856-11	INDUCTOR	10UH	
L104	1-414-856-11	INDUCTOR	10UH	
L105	1-414-856-11	INDUCTOR	10UH	
L301	1-414-189-31	INDUCTOR	100UH	
L302	1-414-185-41	INDUCTOR	22UH	
L501	1-412-525-31	INDUCTOR	10UH	
L502	1-422-613-11	COIL, AIR CORE		
L503	1-412-525-31	INDUCTOR	10UH	
L504	1-412-525-31	INDUCTOR	10UH	
L505	1-412-525-31	INDUCTOR	10UH (FOR JE ONLY)	
L506	1-412-525-31	INDUCTOR	10UH (FOR JE ONLY)	
L507	1-459-111-00	INDUCTOR	10MMH	
L508	1-412-525-31	INDUCTOR	10UH (FOR JE ONLY)	
L511	1-406-977-21	INDUCTOR	0UH	
L513	1-412-551-31	INDUCTOR	1.5MMH	
L515	1-459-104-00	COIL, WITH CORE		
L518	1-414-187-11	INDUCTOR	47UH	
L601	1-412-527-11	INDUCTOR	15UH	
L905	1-414-856-11	INDUCTOR	10UH	
		<PHOTO COUPLER>		
PH600 ⚠	8-749-924-35	PHOTO COUPLER ON3171-R		
		<TRANSISTOR>		
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q003	8-729-424-08	TRANSISTOR UN2111		
Q004	8-729-421-22	TRANSISTOR UN2211		
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG		

REF. NO.	PART NO.	DESCRIPTION		REMARK
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		
Q304	8-729-216-22	TRANSISTOR 2SA1162-G		
Q305	8-729-216-22	TRANSISTOR 2SA1162-G		
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		
Q311	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q315	8-729-421-19	TRANSISTOR UN2213		
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q505	8-729-931-45	TRANSISTOR IRF614		
Q506	8-729-119-80	TRANSISTOR 2SC2688-LK		
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q511	8-729-048-07	TRANSISTOR 2SD2578-CA		
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE		
Q601	8-729-023-22	TRANSISTOR 2SD2114K		
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q603	8-729-424-08	TRANSISTOR UN2111		
Q604	8-729-200-17	TRANSISTOR 2SA1091-O		
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102		
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW		
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG		
		<RESISTOR>		
R001	1-414-233-22	INDUCTOR CHIP	0UH	
R002	1-216-025-91	RES,CHIP	100 5% 1/10W	
R003	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R004	1-216-025-91	RES,CHIP	100 5% 1/10W	
R005	1-216-025-91	RES,CHIP	100 5% 1/10W	
R008	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R010	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R011	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R012	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R013	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R014	1-216-025-91	RES,CHIP	100 5% 1/10W	
R015	1-216-025-91	RES,CHIP	100 5% 1/10W	
R018	1-216-033-00	RES,CHIP	220 5% 1/10W	
R019	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R021	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R022	1-216-025-91	RES,CHIP	100 5% 1/10W	
R023	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R024	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	
R025	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	
R026	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	
R027	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R029	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R031	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R032	1-216-025-91	RES,CHIP	100 5% 1/10W	
R034	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R035	1-216-025-91	RES,CHIP	100 5% 1/10W	
R036	1-216-025-91	RES,CHIP	100 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R037	1-216-025-91	RES,CHIP	100	5%	1/10W
R038	1-216-049-91	RES,CHIP	1K	5%	1/10W
R040	1-216-025-91	RES,CHIP	100	5%	1/10W
R041	1-216-025-91	RES,CHIP	100	5%	1/10W
R042	1-216-295-91	SHORT	0		
R043	1-216-049-91	RES,CHIP	1K	5%	1/10W
R044	1-216-025-91	RES,CHIP	100	5%	1/10W
R045	1-414-233-22	INDUCTOR CHIP	0UH		
R046	1-216-049-91	RES,CHIP	1K	5%	1/10W
R047	1-414-233-22	INDUCTOR CHIP	0UH		
R048	1-216-073-00	RES,CHIP	10K	5%	1/10W
R049	1-216-073-00	RES,CHIP	10K	5%	1/10W
R050	1-216-073-00	RES,CHIP	10K	5%	1/10W
R052	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R053	1-216-049-91	RES,CHIP	1K	5%	1/10W
R055	1-216-073-00	RES,CHIP	10K	5%	1/10W
R056	1-216-073-00	RES,CHIP	10K	5%	1/10W
R061	1-216-295-91	SHORT	0		
R062	1-216-041-00	RES,CHIP	470	5%	1/10W
R063	1-216-041-00	RES,CHIP	470	5%	1/10W
R064	1-216-041-00	RES,CHIP	470	5%	1/10W
R065	1-216-041-00	RES,CHIP	470	5%	1/10W
R066	1-216-049-91	RES,CHIP	1K	5%	1/10W
R067	1-216-049-91	RES,CHIP	1K	5%	1/10W
R105	1-216-295-91	SHORT	0		
R109	1-216-041-00	RES,CHIP	470	5%	1/10W
R111	1-216-025-91	RES,CHIP	100	5%	1/10W
R112	1-216-025-91	RES,CHIP	100	5%	1/10W
R113	1-216-025-91	RES,CHIP	100	5%	1/10W
R225	1-216-033-00	RES,CHIP	220	5%	1/10W
R226	1-216-033-00	RES,CHIP	220	5%	1/10W
R227	1-216-033-00	RES,CHIP	220	5%	1/10W
R237	1-216-295-91	SHORT	0		
R301	1-216-113-00	RES,CHIP	470K	5%	1/10W
R302	1-216-295-91	SHORT	0		
R303	1-216-049-91	RES,CHIP	1K	5%	1/10W
R304	1-216-073-00	RES,CHIP	10K	5%	1/10W
R306	1-216-085-00	RES,CHIP	33K	5%	1/10W
R308	1-216-025-91	RES,CHIP	100	5%	1/10W
R309	1-216-025-91	RES,CHIP	100	5%	1/10W
R310	1-216-025-91	RES,CHIP	100	5%	1/10W
R316	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R318	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R319	1-216-025-91	RES,CHIP	100	5%	1/10W
R320	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R321	1-216-073-00	RES,CHIP	10K	5%	1/10W
R322	1-216-033-00	RES,CHIP	220	5%	1/10W
R326	1-216-029-00	RES,CHIP	150	5%	1/10W
R327	1-216-033-00	RES,CHIP	220	5%	1/10W
R328	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R329	1-216-041-00	RES,CHIP	470	5%	1/10W
R331	1-216-295-91	SHORT	0		
R332	1-216-033-00	RES,CHIP	220	5%	1/10W
R333	1-216-083-00	RES,CHIP	27K	5%	1/10W
R334	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R335	1-216-045-00	RES,CHIP	680	5%	1/10W
R338	1-216-037-00	RES,CHIP	330	5%	1/10W
R339	1-216-033-00	RES,CHIP	220	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R340	1-216-025-91	RES,CHIP	100	5%	1/10W
R345	1-216-081-00	RES,CHIP	22K	5%	1/10W
R348	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W
R350	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R357	1-216-079-00	RES,CHIP	18K	5%	1/10W
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R359	1-216-033-00	RES,CHIP	220	5%	1/10W
R360	1-216-033-00	RES,CHIP	220	5%	1/10W
R361	1-216-073-00	RES,CHIP	10K	5%	1/10W
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R366	1-216-073-00	RES,CHIP	10K	5%	1/10W
R367	1-216-073-00	RES,CHIP	10K	5%	1/10W
R368	1-216-073-00	RES,CHIP	10K	5%	1/10W
R370	1-216-033-00	RES,CHIP	220	5%	1/10W
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R377	1-216-121-91	RES,CHIP	1M	5%	1/10W
R378	1-216-295-91	SHORT	0		
R500	1-247-831-91	CARBON	1K	5%	1/4W
R501	1-216-049-91	RES,CHIP	1K	5%	1/10W
R505	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R506	1-216-081-00	RES,CHIP	22K	5%	1/10W
R507	1-249-389-11	CARBON	4.7	5%	1/4W F
R508	1-216-471-11	METAL OXIDE	27	5%	3W F
R509	1-216-473-11	METAL OXIDE	56	5%	3W F
R510	1-216-449-11	METAL OXIDE	56	5%	2W F
R511	1-215-908-00	METAL OXIDE	33	5%	3W F
R515	1-215-911-11	METAL OXIDE	100	5%	3W F
R517	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R518	1-247-807-31	CARBON	100	5%	1/4W
R519	1-215-913-11	METAL OXIDE	220	5%	3W F
R520	1-215-445-00	METAL	10K	1%	1/4W
R522	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R523	1-249-411-11	CARBON	330	5%	1/4W
R525	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R526	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R527	1-216-001-00	RES,CHIP	10	5%	1/10W
R528	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
R529	1-208-766-11	METAL CHIP	220	0.50%	1/10W
R531	1-247-843-11	CARBON	3.3K	5%	1/4W
R533	1-247-831-91	CARBON	1K	5%	1/4W
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W F
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R537	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R539	1-216-049-91	RES,CHIP	1K	5%	1/10W
R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R542	1-216-073-00	RES,CHIP	10K	5%	1/10W
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W F
R544	1-215-917-11	METAL OXIDE	1K	5%	3W F

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R545	1-216-077-91	RES,CHIP	15K	5%	1/10W
R546	1-216-077-91	RES,CHIP	15K	5%	1/10W
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W
R548	1-208-796-11	METAL CHIP	3.9K	0.50%	1/10W
R549	1-215-452-00	METAL	20K	1%	1/4W
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W
R551	1-249-441-11	CARBON	100K	5%	1/4W
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R553	1-215-453-00	METAL	22K	1%	1/4W
R554	1-215-453-00	METAL	22K	1%	1/4W
R556	1-215-437-00	METAL	4.7K	1%	1/4W
R558	1-247-843-11	CARBON	3.3K	5%	1/4W
R559	1-249-429-11	CARBON	10K	5%	1/4W
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W
R561	1-216-049-91	RES,CHIP	1K	5%	1/10W
R562	1-249-401-11	CARBON	47	5%	1/4W
R564	1-208-820-11	METAL CHIP	39K	0.50%	1/10W
R565	1-216-073-00	RES,CHIP	10K	5%	1/10W
R567	1-216-105-91	RES,CHIP	220K	5%	1/10W
R568	1-249-383-11	CARBON	1.5	5%	1/4W F
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R571	1-215-443-00	METAL	8.2K	1%	1/4W
R573	1-216-083-00	RES,CHIP	27K	5%	1/10W
R575	1-208-796-11	METAL CHIP	3.9K	0.50%	1/10W
R577	1-215-913-11	METAL OXIDE	220	5%	3W F
R578	1-216-369-00	METAL OXIDE	1	5%	2W F
R579	1-216-295-91	SHORT	0		
R580	1-208-830-11	METAL CHIP	100K	0.50%	1/10W
R581	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R582	1-208-846-11	METAL CHIP	470K	0.50%	1/10W
R584	1-208-798-11	METAL CHIP	4.7K	0.50%	1/10W
R587	1-216-295-91	SHORT	0		
R588	1-215-888-00	METAL OXIDE	220	5%	2W F
R589	1-215-888-00	METAL OXIDE	220	5%	2W F
R590	1-215-465-00	METAL	68K	1%	1/4W
R591	1-260-288-11	CARBON	0.47	5%	1/2W F
R592	1-208-820-11	METAL CHIP	39K	0.50%	1/10W
R593	1-260-288-11	CARBON	0.47	5%	1/2W F
R594	1-260-288-11	CARBON	0.47	5%	1/2W F
R595	1-216-073-00	RES,CHIP	10K	5%	1/10W
R596	1-215-916-00	METAL OXIDE	680	5%	3W F
R597	1-247-750-11	CARBON	680	5%	1/2W F
R598	1-249-438-11	CARBON	56K	5%	1/4W
R599	1-249-389-11	CARBON	4.7	5%	1/4W
R600	1-249-438-11	CARBON	56K	5%	1/4W
R601	1-249-420-11	CARBON	1.8K	5%	1/4W F
R602	1-249-389-11	CARBON	4.7	5%	1/4W F
R603	1-215-485-00	METAL	470K	1%	1/4W
R604	1-216-097-91	RES,CHIP	100K	5%	1/10W
R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R608	1-240-205-91	CARBON	22M	5%	1/2W
R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R610	1-216-073-00	RES,CHIP	10K	5%	1/10W
R611	1-216-089-91	RES,CHIP	47K	5%	1/10W
R612	1-216-045-00	RES,CHIP	680	5%	1/10W
R614	1-216-041-00	RES,CHIP	470	5%	1/10W
R615	1-216-369-00	METAL OXIDE	1	5%	2W F

REF. NO.	PART NO.	DESCRIPTION			REMARK
R616	1-260-302-51	CARBON	6.8	5%	1/2W F
R617	1-247-791-91	CARBON	22	5%	1/4W
R619	1-260-128-11	CARBON	270K	5%	1/2W
R620	1-129-720-00	FILM	0.033MF	5%	630V
R621	1-215-859-00	METAL OXIDE	22	5%	1W F
R623	1-216-095-00	RES,CHIP	82K	5%	1/10W
R624	1-216-089-91	RES,CHIP	47K	5%	1/10W
R626	1-216-049-91	RES,CHIP	1K	5%	1/10W
R627	1-240-251-11	CEMENTED	6.8	5%	10W
R629	1-247-747-11	CARBON	470	5%	1/2W F
R630	1-249-429-11	CARBON	10K	5%	1/4W F
R631	1-216-089-91	RES,CHIP	47K	5%	1/10W
R632	1-220-886-11	FUSIBLE	0.1	10%	1W F
R634 ⚠	1-218-265-11	METAL	8.2M	5%	1W
R635	1-216-492-11	METAL OXIDE	82K	5%	3W F
R636	1-215-924-00	METAL OXIDE	15K	5%	3W F
R637	1-216-492-11	METAL OXIDE	82K	5%	3W F
R639	1-216-361-21	METAL OXIDE	0.22	5%	2W F
R640	1-249-415-11	CARBON	680	5%	1/4W
R641	1-216-361-21	METAL OXIDE	0.22	5%	2W F
R642	1-249-419-11	CARBON	1.5K	5%	1/4W
R643	1-247-843-11	CARBON	3.3K	5%	1/4W
R644	1-249-419-11	CARBON	1.5K	5%	1/4W
R646	1-215-924-00	METAL OXIDE	15K	5%	3W F
R647	1-249-387-11	CARBON	3.3	5%	1/4W
R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R649	1-247-831-91	CARBON	1K	5%	1/4W
R650	1-215-882-00	METAL OXIDE	22	5%	2W F
R652	1-215-900-11	METAL OXIDE	22K	5%	2W F
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R656	1-247-831-91	CARBON	1K	5%	1/4W
R657	1-260-127-11	CARBON	220K	5%	1/2W
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W F
R682	1-249-377-11	CARBON	0.47	5%	1/4W F
R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

<RELAY>

RY600 ⚠	1-755-276-21	RELAY, POWER
RY601 ⚠	1-755-299-11	RELAY

<SWITCH>

S501	1-572-707-11	SWITCH, LEVER
S502	1-572-707-11	SWITCH, LEVER

<TRANSFORMER>

T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
T503 ⚠	1-453-284-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M3I4)
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)
T601	1-424-505-11	TRANSFORMER, LINE FILTER

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A **B3**

REF. NO.		PART NO.	DESCRIPTION	REMARK
T603	⚠	1-431-976-11	TRANSFORMER, CONVERTER (SRT)	
T604	⚠	1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
			<THERMISTOR>	
THP600		1-803-540-11	THERMISTOR	
			<TUNER>	
TU101		8-598-449-10	TUNER, FSS BTF-LG433	
			<CRYSTAL>	
X001		1-781-174-21	VIBRATOR, CERAMIC	
X301		1-781-134-21	VIBRATOR, CRYSTAL	
X302		1-781-132-21	VIBRATOR, CRYSTAL	

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	*	A-1136-055-A	B3 BOARD, COMPLETE (FOR ME)			
			**********			
	*	A-1136-082-A	B3 BOARD, COMPLETE (FOR JE)			
			**********			
		4-382-854-11	SCREW (M3X10), P, SW (+)			
			<CAPACITOR>			
C1402		1-104-664-11	ELECT	47MF	20%	25V
C1404		1-216-295-91	SHORT	0		
C1405		1-104-664-11	ELECT	47MF	20%	25V
C1410		1-104-664-11	ELECT	47MF	20%	25V
C1411		1-216-295-91	SHORT	0		
C1413		1-126-935-11	ELECT	470MF	20%	16V
C1414		1-164-346-11	CERAMIC CHIP	1MF		16V
C1415		1-104-664-11	ELECT	47MF	20%	25V
C1416		1-164-346-11	CERAMIC CHIP	1MF		16V
C1418		1-163-031-11	CERAMIC CHIP	0.01MF		50V
C1422		1-164-346-11	CERAMIC CHIP	1MF		16V
C1423		1-164-346-11	CERAMIC CHIP	1MF		16V
C1425		1-164-346-11	CERAMIC CHIP	1MF		16V
C1426		1-164-346-11	CERAMIC CHIP	1MF		16V
C1428		1-104-665-11	ELECT	100MF	20%	25V
C1429		1-104-663-11	ELECT	33MF	20%	25V
C1431		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1433		1-104-664-11	ELECT	47MF	20%	16V
C1434		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1435		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1436		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1440		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1441		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1443		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1444		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1445		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1446		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1447		1-126-964-11	ELECT	10MF	20%	50V
C1448		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1449		1-126-933-11	ELECT	100MF	20%	16V
C1459		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1460		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1461		1-164-346-11	CERAMIC CHIP	1MF		16V
C1462		1-164-346-11	CERAMIC CHIP	1MF		16V
C3201		1-126-964-11	ELECT	10MF	20%	50V
C3202		1-136-171-00	MYLAR	0.33MF	5%	50V
C3203		1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3206		1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3207		1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3208		1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C3209		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3210		1-126-964-11	ELECT	10MF	20%	50V
C3211		1-126-964-11	ELECT	10MF	20%	50V
C3212		1-126-964-11	ELECT	10MF	20%	50V
C3213		1-104-664-11	ELECT	47MF	20%	25V
C3214		1-104-664-11	ELECT	47MF	20%	25V
C3215		1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3216		1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3217		1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C3218		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3219		1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C3220		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3221		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3222		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3223		1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C3224		1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3225		1-163-038-91	CERAMIC CHIP	0.1MF		25V
C3226		1-126-964-11	ELECT	10MF	20%	50V
C3227		1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3228		1-107-698-11	ELECT	10MF	20%	25V
C3229		1-107-698-11	ELECT	10MF	20%	25V
C3238		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3239		1-136-171-00	MYLAR	0.33MF	5%	50V
C3240		1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3243		1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C3244		1-164-346-11	CERAMIC CHIP	1MF		16V
C3245		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3246		1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3247		1-126-963-11	ELECT	4.7MF	20%	50V
C3248		1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3249		1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3250		1-164-346-11	CERAMIC CHIP	1MF		16V
C3251		1-126-964-11	ELECT	10MF	20%	50V
C3252		1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3253		1-126-933-11	ELECT	100MF	20%	16V
C3254		1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3255		1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3256		1-126-963-11	ELECT	4.7MF	20%	50V
C3257		1-164-346-11	CERAMIC CHIP	1MF		16V
C3258		1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C3259		1-126-963-11	ELECT	4.7MF	20%	50V
C3260		1-163-251-11	CERAMIC CHIP	100PF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C3262	1-104-664-11	ELECT	47MF	20%	16V
C3264	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3265	1-126-964-11	ELECT	10MF	20%	50V
C3266	1-126-964-11	ELECT	10MF	20%	50V
C3268	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3269	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3270	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C3271	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C3272	1-126-965-11	ELECT	22MF	20%	50V
C3273	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3274	1-126-964-11	ELECT	10MF	20%	50V
C3276	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V
C3277	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V
C3278	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V
C3279	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V
C3280	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C3281	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C3282	1-126-964-11	ELECT	10MF	20%	50V
C3283	1-126-964-11	ELECT	10MF	20%	50V
C3284	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C3285	1-126-964-11	ELECT	10MF	20%	50V
C3286	1-126-964-11	ELECT	10MF	20%	50V
C3287	1-126-964-11	ELECT	10MF	20%	50V
C3288	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C3289	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C3290	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3291	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6200	1-216-295-91	SHORT	0		
C6202	1-128-550-11	ELECT	2200MF	20%	50V
C6203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C6204	1-128-550-11	ELECT	2200MF	20%	50V
C6205	1-130-495-00	MYLAR	0.1MF	5%	50V
C6206	1-128-550-11	ELECT	2200MF	20%	50V
C6209	1-130-495-00	MYLAR	0.1MF	5%	50V
C6210	1-126-924-11	ELECT	330MF	20%	10V
C6211	1-126-924-11	ELECT	330MF	20%	10V
C6212	1-104-664-11	ELECT	47MF	20%	25V
C6213	1-126-964-11	ELECT	10MF	20%	50V
C6217	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6220	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6222	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C6223	1-126-960-11	ELECT	1MF	20%	50V
C6241	1-126-964-11	ELECT	10MF	20%	50V
C6244	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C6245	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C6249	1-216-295-91	SHORT	0		

<CONNECTOR>

CN1400*	1-564-512-11	PLUG, CONNECTOR 9P
CN1401*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P (FOR JE ONLY)
CN1402*	1-564-507-11	PLUG, CONNECTOR 4P
CN1403*	1-564-506-11	PLUG, CONNECTOR 3P
CN1405*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P
CN1406*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P
CN1407*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P
CN1408	1-764-818-11	CONNECTOR, BOARD TO BOARD 10P
CN1409	1-764-818-11	CONNECTOR, BOARD TO BOARD 10P
CN1410	1-695-915-11	TAB (CONTACT) (FOR ME ONLY)
CN6200*	1-564-507-11	PLUG, CONNECTOR 4P
CN6204*	1-564-509-11	PLUG, CONNECTOR 6P
CN6206*	1-564-508-11	PLUG, CONNECTOR 5P

<DIODE>

D1401	8-719-069-60	DIODE UDZS-TE17-9.1B
D1402	8-719-069-60	DIODE UDZS-TE17-9.1B
D1403	8-719-069-60	DIODE UDZS-TE17-9.1B
D1404	8-719-069-60	DIODE UDZS-TE17-9.1B
D1405	8-719-069-60	DIODE UDZS-TE17-9.1B
D1406	8-719-069-60	DIODE UDZS-TE17-9.1B
D1407	8-719-069-60	DIODE UDZS-TE17-9.1B
D1408	8-719-069-60	DIODE UDZS-TE17-9.1B
D1409	8-719-069-60	DIODE UDZS-TE17-9.1B
D1410	8-719-069-60	DIODE UDZS-TE17-9.1B
D1411	8-719-069-60	DIODE UDZS-TE17-9.1B
D1412	8-719-069-60	DIODE UDZS-TE17-9.1B
D1415	8-719-069-60	DIODE UDZS-TE17-9.1B
D1416	8-719-069-60	DIODE UDZS-TE17-9.1B
D3201	8-719-988-61	DIODE 1SS355TE-17
D3203	8-719-988-61	DIODE 1SS355TE-17
D6211	8-719-073-01	DIODE MA111-(K8).S0
D6212	8-719-073-01	DIODE MA111-(K8).S0

<IC>

IC1401	8-752-068-46	IC CXA1855S
IC1404	8-759-701-59	IC NJM78M09FA
IC3200	8-759-100-96	IC UPC4558G2
IC3201	8-759-553-44	IC NJM2187L
IC3202	8-759-100-96	IC UPC4558G2
IC3203	8-759-711-10	IC NJU4066BM
IC3204	8-759-100-96	IC UPC4558G2
IC3205	8-752-057-18	IC CXA1315P
IC3206	8-759-496-02	IC NJM2150D
IC3207	8-759-273-12	IC TDA7315D013TR
IC6200	8-759-168-24	IC TA8200AH

<JACK>

J1401	1-784-646-11	TERMINAL, S
J1402	1-778-388-11	JACK BLOCK, PIN 9P

<CHIP CONDUCTOR>

JR1405	1-216-295-91	SHORT	0
JR1406	1-216-295-91	SHORT	0
JR1407	1-216-295-91	SHORT	0
JR1408	1-216-295-91	SHORT	0
JR1411	1-216-295-91	SHORT	0
JR3200	1-216-295-91	SHORT	0
JR3201	1-216-295-91	SHORT	0
JR3202	1-216-295-91	SHORT	0

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REF. NO.	PART NO.	DESCRIPTION			REMARK
JR3203	1-216-295-91	SHORT	0		
JR3204	1-216-295-91	SHORT	0		
JR3207	1-216-295-91	SHORT	0		
JR3208	1-216-295-91	SHORT	0		
JR3209	1-216-295-91	SHORT	0		
JR6200	1-216-295-91	SHORT	0		
JR6202	1-216-295-91	SHORT	0		
JR6203	1-216-295-91	SHORT	0		
JR6204	1-216-295-91	SHORT	0		
		<COIL>			
L1404	1-412-537-31	INDUCTOR	100UH		
L3202	1-414-856-11	INDUCTOR	10UH		
		<TRANSISTOR>			
Q1402	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1403	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1404	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3201	8-729-224-62	TRANSISTOR 2SK246-GR (FOR ME ONLY)			
Q3202	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3203	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q3204	8-729-224-62	TRANSISTOR 2SK246-GR			
Q6201	8-729-421-19	TRANSISTOR UN2213			
Q6203	8-729-421-19	TRANSISTOR UN2213			
Q6204	8-729-421-19	TRANSISTOR UN2213			
Q6208	8-729-421-19	TRANSISTOR UN2213			
		<RESISTOR>			
R1403	1-216-033-00	RES,CHIP	220	5%	1/10W
R1404	1-216-295-91	SHORT	0		
R1406	1-216-013-00	RES,CHIP	33	5%	1/10W
R1407	1-216-033-00	RES,CHIP	220	5%	1/10W
R1408	1-216-031-00	RES,CHIP	180	5%	1/10W
R1409	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1410	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1411	1-216-295-91	SHORT	0		
R1412	1-216-295-91	SHORT	0		
R1414	1-216-025-91	RES,CHIP	100	5%	1/10W
R1417	1-216-025-91	RES,CHIP	100	5%	1/10W
R1418	1-216-025-91	RES,CHIP	100	5%	1/10W
R1426	1-216-025-91	RES,CHIP	100	5%	1/10W
R1428	1-216-025-91	RES,CHIP	100	5%	1/10W
R1429	1-216-295-91	SHORT	0		
R1430	1-216-025-91	RES,CHIP	100	5%	1/10W
R1431	1-216-025-91	RES,CHIP	100	5%	1/10W
R1433	1-216-025-91	RES,CHIP	100	5%	1/10W
R1435	1-216-022-00	RES,CHIP	75	5%	1/10W
R1436	1-216-025-91	RES,CHIP	100	5%	1/10W
R1437	1-216-022-00	RES,CHIP	75	5%	1/10W
R1438	1-216-025-91	RES,CHIP	100	5%	1/10W
R1441	1-216-025-91	RES,CHIP	100	5%	1/10W
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1443	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1445	1-216-025-91	RES,CHIP	100	5%	1/10W
R1446	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1447	1-216-025-91	RES,CHIP	100	5%	1/10W
R1449	1-249-429-11	CARBON	10K	5%	1/4W
R1450	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1451	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1452	1-216-295-91	SHORT	0		
R1453	1-216-025-91	RES,CHIP	100	5%	1/10W
R1455	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1456	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1457	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1458	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1459	1-216-025-91	RES,CHIP	100	5%	1/10W
R1460	1-216-033-00	RES,CHIP	220	5%	1/10W
R1461	1-216-025-91	RES,CHIP	100	5%	1/10W
R1463	1-249-429-11	CARBON	10K	5%	1/4W
R1464	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1465	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1466	1-216-033-00	RES,CHIP	220	5%	1/10W
R1467	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1468	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1469	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1470	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1471	1-216-022-00	RES,CHIP	75	5%	1/10W
R1472	1-216-033-00	RES,CHIP	220	5%	1/10W
R1473	1-216-033-00	RES,CHIP	220	5%	1/10W
R1477	1-216-047-91	RES,CHIP	820	5%	1/10W
R1478	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1479	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1480	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1481	1-216-022-00	RES,CHIP	75	5%	1/10W
R1482	1-216-025-91	RES,CHIP	100	5%	1/10W
R1483	1-216-025-91	RES,CHIP	100	5%	1/10W
R1484	1-216-025-91	RES,CHIP	100	5%	1/10W
R1485	1-216-025-91	RES,CHIP	100	5%	1/10W
R1486	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1490	1-216-025-91	RES,CHIP	100	5%	1/10W
R1491	1-216-025-91	RES,CHIP	100	5%	1/10W
R1492	1-216-021-00	RES,CHIP	68	5%	1/10W
R1493	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1496	1-216-041-00	RES,CHIP	470	5%	1/10W
R1497	1-216-041-00	RES,CHIP	470	5%	1/10W
R1498	1-216-025-91	RES,CHIP	100	5%	1/10W
R1499	1-216-025-91	RES,CHIP	100	5%	1/10W
R1500	1-216-025-91	RES,CHIP	100	5%	1/10W
R1502	1-216-025-91	RES,CHIP	100	5%	1/10W
R1503	1-216-025-91	RES,CHIP	100	5%	1/10W
R1504	1-216-025-91	RES,CHIP	100	5%	1/10W
R3200	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3201	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3202	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3203	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3204	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3206	1-216-039-00	RES,CHIP	390	5%	1/10W
R3207	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3208	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R3210	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3211	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3213	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3214	1-216-295-91	SHORT	0		
R3215	1-216-295-91	SHORT	0		
R3216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3218	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3219	1-216-077-91	RES,CHIP	15K	5%	1/10W
R3220	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3222	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3223	1-216-045-00	RES,CHIP	680	5%	1/10W
R3224	1-216-115-00	RES,CHIP	560K	5%	1/10W
R3225	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3226	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3227	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R3228	1-216-085-00	RES,CHIP	33K	5%	1/10W
R3229	1-216-095-00	RES,CHIP	82K	5%	1/10W
R3230	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R3231	1-216-091-00	RES,CHIP	56K	5%	1/10W
R3232	1-216-089-91	RES,CHIP	47K	5%	1/10W
R3233	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3234	1-216-039-00	RES,CHIP	390	5%	1/10W
R3235	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3236	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3237	1-216-045-00	RES,CHIP	680	5%	1/10W
R3238	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3239	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3240	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3241	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3242	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3245	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3246	1-216-045-00	RES,CHIP	680	5%	1/10W
R3247	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3248	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3249	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3250	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3251	1-216-101-00	RES,CHIP	150K	5%	1/10W
R3252	1-216-113-00	RES,CHIP	470K	5%	1/10W
R3253	1-216-045-00	RES,CHIP	680	5%	1/10W
R3254	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3255	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3256	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3257	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3258	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3259	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3260	1-216-025-91	RES,CHIP	100	5%	1/10W
R3261	1-216-025-91	RES,CHIP	100	5%	1/10W
R3262	1-216-115-00	RES,CHIP	560K	5%	1/10W
R3263	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3264	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3266	1-216-295-91	SHORT	0		
R3267	1-216-049-91	RES,CHIP	1K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3268	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3269	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3270	1-216-295-91	SHORT	0		
R3271	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3272	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3273	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3274	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3277	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3278	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3279	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R3280	1-216-033-00	RES,CHIP	220	5%	1/10W
R3281	1-216-033-00	RES,CHIP	220	5%	1/10W
R3282	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3283	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3285	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3287	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3288	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3289	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3290	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3291	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3294	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3295	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3296	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3297	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3298	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3299	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6201	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6202	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6203	1-216-295-91	SHORT	0		
R6209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6219	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6245	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6246	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6254	1-216-001-00	RES,CHIP	10	5%	1/10W
R6255	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6258	1-216-001-00	RES,CHIP	10	5%	1/10W
R6259	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6278	1-216-295-91	SHORT	0		

****

B5

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1131-506-A	B5 BOARD, MOUNTED (FOR ME)			
		**********			
*	A-1131-558-A	B5 BOARD, MOUNTED (FOR JE)			
		**********			
		<CAPACITOR>			
C1540	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1541	1-126-967-11	ELECT	47MF	20%	50V
C1542	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1543	1-126-933-11	ELECT	100MF	20%	16V
C1544	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1554	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1571	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C1572	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1574	1-216-295-91	SHORT	0		
C1575	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C1576	1-104-661-91	ELECT	330MF	20%	16V
C1577	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C1578	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5801	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C5802	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C5803	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5804	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C5805	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5806	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C5808	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5810	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C5811	1-126-934-11	ELECT	220MF	20%	16V
C5813	1-126-964-11	ELECT	10MF	20%	50V
C5814	1-104-664-11	ELECT (FOR JE ONLY)	47MF	20%	16V
C5817	1-104-664-11	ELECT	47MF	20%	16V
C5818	1-126-933-11	ELECT	100MF	20%	16V
C5820	1-164-004-11	CERAMIC CHIP (FOR ME ONLY)	0.1MF	10%	25V
		<CONNECTOR>			
CN1503	1-764-811-11	CONNECTOR, BOARD TO BOARD 10P			
CN1504	1-764-811-11	CONNECTOR, BOARD TO BOARD 10P			
CN5800*	1-564-506-11	PLUG, CONNECTOR 3P			
		<IC>			
IC1501	8-752-058-68	IC CXA1315M			
		<CHIP CONDUCTOR>			
JR5800	1-216-295-91	SHORT	0		
JR5801	1-216-295-91	SHORT	0		
JR5802	1-216-295-91	SHORT	0 (FOR ME ONLY)		
		<COIL>			
L1501	1-414-856-11	INDUCTOR	10UH		
L1502	1-414-856-11	INDUCTOR	10UH		
L1570	1-410-470-11	INDUCTOR	10UH		
L5800	1-414-856-11	INDUCTOR	10UH		
L5801	1-414-856-11	INDUCTOR	10UH		
L5802	1-414-189-31	INDUCTOR	100UH		
L5803	1-414-188-41	INDUCTOR	68UH		
L5804	1-414-856-11	INDUCTOR	10UH		
L5805	1-414-856-11	INDUCTOR	10UH (FOR JE ONLY)		
L5806	1-414-189-31	INDUCTOR	100UH		
		<TRANSISTOR>			
Q1571	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1572	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1573	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1574	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1575	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1576	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1577	8-729-216-22	TRANSISTOR 2SA1162-G			
Q5801	8-729-216-22	TRANSISTOR 2SA1162-G			
Q5802	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5803	8-729-216-22	TRANSISTOR 2SA1162-G			
Q5804	8-729-421-19	TRANSISTOR UN2213			
Q5805	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5806	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5807	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5808	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5809	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5810	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5811	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5812	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5813	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5814	8-729-216-22	TRANSISTOR 2SA1162-G			
Q5815	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5816	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5817	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5818	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q5819	8-729-230-49	TRANSISTOR 2SC2712-YG (FOR ME ONLY)			
Q5820	8-729-230-49	TRANSISTOR 2SC2712-YG (FOR ME ONLY)			
		<RESISTOR>			
R1570	1-216-021-00	RES,CHIP	68	5%	1/10W
R1571	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1572	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1573	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1574	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1575	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1577	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1578	1-216-033-00	RES,CHIP	220	5%	1/10W
R1579	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1580	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1581	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1582	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R1583	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1584	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1585	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1586	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R1589	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1590	1-216-073-00	RES,CHIP	10K	5%	1/10W

B5 B7

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1591	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1592	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1593	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1594	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1595	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1596	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1598	1-216-025-91	RES,CHIP	100	5%	1/10W
R1599	1-216-025-91	RES,CHIP	100	5%	1/10W
R5801	1-216-025-91	RES,CHIP	100	5%	1/10W
R5803	1-216-033-00	RES,CHIP	220	5%	1/10W
R5804	1-216-295-91	SHORT	0		
R5805	1-216-027-00	RES,CHIP	120	5%	1/10W
R5806	1-216-041-00	RES,CHIP	470	5%	1/10W
R5807	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5808	1-216-043-91	RES,CHIP	560	5%	1/10W
R5809	1-216-025-91	RES,CHIP	100	5%	1/10W
R5810	1-216-077-91	RES,CHIP	15K	5%	1/10W
R5811	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5812	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5813	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5814	1-216-689-11	RES,CHIP	39K	5%	1/10W
R5815	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5816	1-216-025-91	RES,CHIP	100	5%	1/10W
R5817	1-216-085-00	RES,CHIP	33K	5%	1/10W
R5818	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5819	1-216-041-00	RES,CHIP	470	5%	1/10W
R5820	1-216-041-00	RES,CHIP	470	5%	1/10W
R5821	1-216-041-00	RES,CHIP	470	5%	1/10W
R5822	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5823	1-216-085-00	RES,CHIP	33K	5%	1/10W
R5824	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5825	1-216-041-00	RES,CHIP	470	5%	1/10W
R5826	1-216-041-00	RES,CHIP	470	5%	1/10W
R5827	1-216-041-00	RES,CHIP	470	5%	1/10W
R5829	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5830	1-216-041-00	RES,CHIP	470	5%	1/10W
R5831	1-216-041-00	RES,CHIP	470	5%	1/10W
R5832	1-216-041-00	RES,CHIP	470	5%	1/10W
R5833	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5834	1-216-085-00	RES,CHIP	33K	5%	1/10W
R5835	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5836	1-216-041-00	RES,CHIP	470	5%	1/10W
R5837	1-216-033-00	RES,CHIP	220	5%	1/10W
R5838	1-216-039-00	RES,CHIP	390	5%	1/10W
R5839	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5840	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5841	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5842	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5843	1-216-033-00	RES,CHIP	220	5%	1/10W
R5844	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R5845	1-216-041-00	RES,CHIP	470	5%	1/10W
R5846	1-216-025-91	RES,CHIP	100	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5847	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5848	1-216-049-91	RES,CHIP (FOR ME ONLY)	1K	5%	1/10W
R5849	1-216-049-91	RES,CHIP (FOR ME ONLY)	1K	5%	1/10W
R5850	1-216-049-91	RES,CHIP (FOR ME ONLY)	1K	5%	1/10W
R5851	1-216-049-91	RES,CHIP	1K	5%	1/10W

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*	A-1131-500-A	B7 BOARD, MOUNTED (FOR ME)			
		**********			
*	A-1131-560-A	B7 BOARD, MOUNTED (FOR JE)			
		**********			
		<CAPACITOR>			
C2301	1-126-933-11	ELECT	100MF	20%	16V
C2302	1-126-964-11	ELECT	10MF	20%	50V
C2303	1-130-495-00	MYLAR	0.1MF	5%	50V
C2304	1-130-495-00	MYLAR	0.1MF	5%	50V
C2305	1-136-165-00	MYLAR	0.1MF	5%	50V
C2306	1-126-964-11	ELECT	10MF	20%	50V
C2308	1-130-483-00	MYLAR	0.01MF	5%	50V
C2312	1-101-004-00	CERAMIC	0.01MF		50V
C2313	1-126-964-11	ELECT	10MF	20%	50V
		<CONNECTOR>			
CN2300	* 1-766-952-11	CONNECTOR, BOARD TO BOARD 11P			
		<FERRITE BEAD>			
FB2300	1-410-397-21	FERRITE	1.1UH		
		<IC>			
IC2300	8-759-639-32	IC TDA9181			
		<COIL>			
L2300	1-414-189-31	INDUCTOR	100UH		
L2301	1-414-189-31	INDUCTOR	100UH		
		<TRANSISTOR>			
Q2304	8-729-030-02	TRANSISTOR DTC144ESA			
Q2305	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2306	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R2310	1-136-165-00	MYLAR	0.1MF	5%	50V
R2312	1-249-425-11	CARBON	4.7K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

B7 C

REF. NO.	PART NO.	DESCRIPTION			REMARK
R2313	1-249-413-11	CARBON	470	5%	1/4W
R2314	1-249-407-11	CARBON	150	5%	1/4W
R2315	1-247-831-91	CARBON	1K	5%	1/4W
R2316	1-259-884-11	CARBON	4.7M	5%	1/4W
R2317	1-259-884-11	CARBON	4.7M	5%	1/4W

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*	A-1331-999-A	C BOARD, MOUNTED (FOR ME)	
		**********	
*	A-1332-031-A	C BOARD, MOUNTED (FOR JE)	
		**********	
	4-382-854-11	SCREW (M3X10), P, SW (+)	

<CAPACITOR>

C700	1-110-389-11	FILM MELF	0.1MF	5%	250V
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V
C707	1-137-399-11	MYLAR	0.1MF	5%	50V
C708	1-102-228-00	CERAMIC	470PF	10%	500V
C709	1-102-228-00	CERAMIC	470PF	10%	500V
C710	1-102-960-00	CERAMIC	24PF	5%	50V
C711	1-102-852-91	CERAMIC	47PF	5%	50V
C712	1-102-525-11	CERAMIC	68PF	5%	50V
C713	1-102-228-00	CERAMIC	470PF	10%	500V
C716	1-104-665-11	ELECT	100MF	20%	25V
C717	1-107-651-11	ELECT	4.7MF	20%	250V
C726	1-104-664-11	ELECT	47MF	20%	25V
C1800	1-126-964-11	ELECT	10MF	20%	50V
C1803	1-126-964-11	ELECT	10MF	20%	50V
C1804	1-126-964-11	ELECT	10MF	20%	50V
C1809	1-126-942-61	ELECT	1000MF	20%	25V

<CONNECTOR>

CN700	1-695-915-11	TAB (CONTACT)	
CN701	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN702	1-695-915-11	TAB (CONTACT)	
CN703 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN704	1-695-915-11	TAB (CONTACT)	
CN706	1-695-915-11	TAB (CONTACT)	
CN1801 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN1802 *	1-564-506-11	PLUG, CONNECTOR 3P	

<DIODE>

D702	8-719-911-19	DIODE 1SS119-25
D703	8-719-911-19	DIODE 1SS119-25
D704	8-719-911-19	DIODE 1SS119-25
D705	8-719-051-85	DIODE HSS83TD
D706	8-719-051-85	DIODE HSS83TD
D707	8-719-051-85	DIODE HSS83TD
D708	8-719-911-19	DIODE 1SS119-25
D709	8-719-911-19	DIODE 1SS119-25
D710	8-719-911-19	DIODE 1SS119-25
D711	8-719-110-23	DIODE RD11ESB3
D720	8-719-911-19	DIODE 1SS119-25
D721	8-719-911-19	DIODE 1SS119-25
D722	8-719-911-19	DIODE 1SS119-25
D1803	8-719-911-19	DIODE 1SS119-25
D1804	8-719-911-19	DIODE 1SS119-25
D1808	8-719-908-03	DIODE GP08D

<IC>

IC701	8-759-561-28	IC STV5112
IC1800	8-759-822-38	IC LA6510

<JACK>

J701	⚠ 1-540-071-22	SOCKET, CRT	

<COIL>

L701	1-410-667-31	INDUCTOR	22UH
L705	1-414-186-31	INDUCTOR	33UH
L706	1-414-186-31	INDUCTOR	33UH
L707	1-414-186-31	INDUCTOR	33UH

<TRANSISTOR>

Q1800	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q1802	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

R700	1-249-393-11	CARBON	10	5%	1/4W	F
R701	1-249-496-11	CARBON	100K	5%	1/2W	
R702	1-215-469-00	METAL	100K	1%	1/4W	
R703	1-215-414-00	METAL	510	1%	1/4W	
R704	1-215-414-00	METAL	510	1%	1/4W	
R705	1-247-831-91	CARBON	1K	5%	1/4W	
R706	1-247-831-91	CARBON	1K	5%	1/4W	
R707	1-215-414-00	METAL	510	1%	1/4W	
R708	1-247-831-91	CARBON	1K	5%	1/4W	
R709	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R711	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R712	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R713	1-215-467-00	METAL	82K	1%	1/4W	
R714	1-249-425-11	CARBON	4.7K	5%	1/4W	
R715	1-249-413-11	CARBON	470	5%	1/4W	
R716	1-249-413-11	CARBON	470	5%	1/4W	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	
R718	1-247-752-11	CARBON	1K	5%	1/2W	
R719	1-249-425-11	CARBON	4.7K	5%	1/4W	
R722	1-247-752-11	CARBON	1K	5%	1/2W	
R723	1-249-413-11	CARBON	470	5%	1/4W	
R724	1-247-752-11	CARBON	1K	5%	1/2W	
R730	1-216-392-11	METAL OXIDE	1.8	5%	3W	F

C D3

REF. NO.	PART NO.	DESCRIPTION			REMARK
R734	1-247-739-11	CARBON	100	5%	1/2W
R744	1-215-415-00	METAL	560	1%	1/4W
R745	1-215-410-00	METAL	360	1%	1/4W
R1800	1-247-831-91	CARBON	1K	5%	1/4W
R1801	1-249-426-11	CARBON	5.6K	5%	1/4W
R1802	1-249-387-11	CARBON	3.3	5%	1/4W F
R1803	1-249-387-11	CARBON	3.3	5%	1/4W F
R1805	1-249-429-11	CARBON	10K	5%	1/4W
R1806	1-249-425-11	CARBON	4.7K	5%	1/4W
R1808	1-249-425-11	CARBON	4.7K	5%	1/4W
R1809	1-249-435-11	CARBON	33K	5%	1/4W
R1810	1-249-435-11	CARBON	33K	5%	1/4W
R1811	1-249-435-11	CARBON	33K	5%	1/4W
R1812	1-249-435-11	CARBON	33K	5%	1/4W
R1821	1-249-435-11	CARBON	33K	5%	1/4W
R1822	1-249-435-11	CARBON	33K	5%	1/4W
R1823	1-249-426-11	CARBON	5.6K	5%	1/4W
R1824	1-249-435-11	CARBON	33K	5%	1/4W
R1825	1-247-843-11	CARBON	3.3K	5%	1/4W
		<VARIABLE RESISTOR>			
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M			
RV1801	1-223-241-11	RES, ADJ, CARBON 47K			
		<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK			

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* A-1343-745-A D3 BOARD, MOUNTED (FOR ME)
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* A-1343-808-A D3 BOARD, MOUNTED (FOR JE)
****

		<CAPACITOR>			
C2800	1-104-664-11	ELECT	47MF	20%	25V
C2801	1-106-220-00	MYLAR	0.1MF	10%	100V
C2802	1-136-155-00	MYLAR	0.015MF	5%	50V
C2803	1-129-723-00	FILM	0.056MF	5%	630V
C2805	1-104-664-11	ELECT	47MF	20%	25V
C2806	1-106-383-00	MYLAR	0.047MF	5%	100V
C2807	1-137-194-81	MYLAR	0.47MF	5%	50V
C2808	1-126-964-11	ELECT	10MF	20%	50V
C2809	1-137-194-81	MYLAR	0.47MF	5%	50V
C2810	1-106-375-12	MYLAR	0.022MF	10%	250V
C2811	1-126-964-11	ELECT	10MF	20%	50V
C2812	1-126-964-11	ELECT	10MF	20%	50V
C2813	1-129-708-61	FILM	0.0033MF	5%	630V

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CONNECTOR>			
CN2800*	1-564-510-11	PLUG, CONNECTOR 7P			
CN2802*	1-564-506-11	PLUG, CONNECTOR 3P			
CN2803	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D2800	8-719-302-43	DIODE EL1Z			
D2801	8-719-911-19	DIODE 1SS119-25			
D2802	8-719-911-19	DIODE 1SS119-25			
D2803	8-719-911-19	DIODE 1SS119-25			
		<IC>			
IC2800	8-759-701-59	IC NJM78M09FA			
IC2801	8-759-998-98	IC LM358D			
		<COIL>			
L2800	1-406-989-21	INDUCTOR	0UH		
L2802	1-406-987-21	INDUCTOR	4.7MMH		
L2803	1-406-986-21	INDUCTOR	3.3UH		
L2804	1-406-678-11	INDUCTOR	15MMH		
		<TRANSISTOR>			
Q2800	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2801	8-729-195-82	TRANSISTOR 2SC2958-L			
Q2802	8-729-017-06	TRANSISTOR 2SC4793			
Q2803	8-729-216-22	TRANSISTOR 2SA1162-G			
Q2804	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R2800	1-249-405-11	CARBON	100	5%	1/4W F
R2802	1-260-111-11	CARBON	10K	5%	1/2W
R2803	1-260-111-11	CARBON	10K	5%	1/2W
R2804	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R2805	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2806	1-249-421-11	CARBON	2.2K	5%	1/4W
R2807	1-249-420-11	CARBON	1.8K	5%	1/4W F
R2808	1-215-857-11	METAL OXIDE	10	5%	1W F
R2809	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2810	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2811	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R2812	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2813	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2814	1-216-121-91	RES,CHIP	1M	5%	1/10W
R2815	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2816	1-216-107-00	RES,CHIP	270K	5%	1/10W
R2817	1-216-107-00	RES,CHIP	270K	5%	1/10W
		<TRANSFORMER>			
T2800	1-413-059-00	TRANSFORMER, FERRITE (DFT)			

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

F H5

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1241-346-A	F BOARD, MOUNTED (FOR ME ONLY)			
		**********			
*	A-1241-411-A	F BOARD, MOUNTED (FOR JE ONLY)			
		**********			
	1-533-223-11	CLIP, FUSE			
		<CAPACITOR>			
C654	1-117-703-11	CERAMIC	0.0047MF	99%	250V
C4601 ⚠	1-104-708-51	MYLAR	0.47MF	20%	250V
C4602 ⚠	1-109-835-51	MYLAR	0.68MF	20%	250V
		<CONNECTOR>			
CN4601*	1-580-843-11	PIN, CONNECTOR (POWER)			
CN4602*	1-580-843-11	PIN, CONNECTOR (POWER)			
CN4603	1-695-915-11	TAB (CONTACT)			
		<FUSE>			
F4601 ⚠	1-532-299-11	FUSE, TIME-LAG 5A/250V			
		<RESISTOR>			
R4601 ⚠	1-202-719-91	SOLID	1M	10%	1/2W
		<TRANSFORMER>			
T4601	1-424-505-11	TRANSFORMER, LINE FILTER			
T4602	1-431-182-11	TRANSFORMER, LINE FILTER			
		<VARISTOR>			
VDR461	1-803-830-31	VARISTOR (ERZV14D621)			
VDR461*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			

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*	A-1372-755-A	H5 BOARD, MOUNTED (FOR ME)			
		**********			
*	A-1372-777-A	H5 BOARD, MOUNTED (FOR JE)			
		**********			
*	4-055-304-01	HOLDER, LED			
		<CAPACITOR>			
C3900	1-136-153-00	MYLAR	0.01MF	5%	50V
C3902	1-136-153-00	MYLAR	0.01MF	5%	50V
C3904	1-104-664-11	ELECT	47MF	20%	25V
C3905	1-126-963-11	ELECT	4.7MF	20%	50V
C3906	1-126-963-11	ELECT	4.7MF	20%	50V
C3910	1-104-664-11	ELECT	47MF	20%	16V
C3911	1-104-664-11	ELECT	47MF	20%	16V
C3912	1-102-114-00	CERAMIC	470PF	10%	50V
C3913	1-126-960-11	ELECT	1MF	20%	50V
C3914	1-126-965-11	ELECT	22MF	20%	50V
		<CONNECTOR>			
CN3601*	1-580-844-11	PIN, CONNECTOR (POWER)			
CN3602*	1-580-844-11	PIN, CONNECTOR (POWER)			
CN3901*	1-564-507-11	PLUG, CONNECTOR 4P			
CN3902*	1-564-509-11	PLUG, CONNECTOR 6P			
CN3904*	1-564-512-11	PLUG, CONNECTOR 9P			
CN3905*	1-564-512-11	PLUG, CONNECTOR 9P			
		<DIODE>			
D3900	8-719-070-16	DIODE NNCD9.1A-T1			
D3901	8-719-070-16	DIODE NNCD9.1A-T1			
D3902	8-719-070-16	DIODE NNCD9.1A-T1			
D3905	8-719-070-16	DIODE NNCD9.1A-T1			
D3906	8-719-045-19	DIODE SPB-26MVWF			
D3907	8-719-070-16	DIODE NNCD9.1A-T1			
D3908	8-719-070-16	DIODE NNCD9.1A-T1			
		<IC>			
IC3901	8-742-134-00	HYB IC SBX1981-51P			
		<JACK>			
J3901	1-750-264-11	JACK			
J3902	1-784-646-11	TERMINAL, S			
J3903	1-770-329-11	JACK, PIN 3P			
		<COIL>			
L3901	1-414-183-41	INDUCTOR	10UH		
L3902	1-414-183-41	INDUCTOR	10UH		
		<TRANSISTOR>			
Q3901	8-729-030-02	TRANSISTOR DTC144ESA			
Q3902	8-729-030-02	TRANSISTOR DTC144ESA			
		<RESISTOR>			
R3900	1-249-411-11	CARBON	330	5%	1/4W
R3901	1-249-411-11	CARBON	330	5%	1/4W
R3902	1-247-804-11	CARBON	75	5%	1/4W
R3904	1-249-429-11	CARBON	10K	5%	1/4W
R3905	1-249-429-11	CARBON	10K	5%	1/4W
R3907	1-249-426-11	CARBON	5.6K	5%	1/4W
R3908	1-249-413-11	CARBON	470	5%	1/4W
R3909	1-247-831-91	CARBON	1K	5%	1/4W
R3910	1-249-420-11	CARBON	1.8K	5%	1/4W
R3911	1-249-411-11	CARBON	330	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

H5 **VM1**

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3912	1-247-843-11	CARBON	3.3K	5%	1/4W
R3913	1-249-429-11	CARBON	10K	5%	1/4W
R3914	1-249-411-11	CARBON	330	5%	1/4W
R3915	1-249-429-11	CARBON	10K	5%	1/4W
R3916	1-249-401-11	CARBON	47	5%	1/4W
R3917	1-247-804-11	CARBON	75	5%	1/4W
R3918	1-247-815-91	CARBON	220	5%	1/4W
R3919	1-247-815-91	CARBON	220	5%	1/4W
R3920	1-247-807-31	CARBON	100	5%	1/4W
R3921	1-247-807-31	CARBON	100	5%	1/4W
R3922	1-249-421-11	CARBON	2.2K	5%	1/4W
R3923	1-247-815-91	CARBON	220	5%	1/4W
R3924	1-247-804-11	CARBON	75	5%	1/4W
		<SWITCH>			
S3601 ⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			
S3902	1-692-431-21	SWITCH, TACTILE			
S3903	1-692-431-21	SWITCH, TACTILE			
S3904	1-692-431-21	SWITCH, TACTILE			
S3905	1-692-431-21	SWITCH, TACTILE			
S3906	1-692-431-21	SWITCH, TACTILE			
S3907	1-692-431-21	SWITCH, TACTILE			
S3908	1-692-431-21	SWITCH, TACTILE			

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	A-1342-530-A	VM1 BOARD, MOUNTED (FOR ME)			
		**********			
	A-1342-527-A	VM1 BOARD, MOUNTED (FOR JE)			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C5900	1-102-115-00	CERAMIC	560PF	10%	50V
C5902	1-104-661-91	ELECT	330MF	20%	16V
C5903	1-161-830-00	CERAMIC	0.0047MF		500V
C5905	1-126-925-11	ELECT	470MF	20%	10V
C5906	1-130-491-00	MYLAR	0.047MF	5%	50V
C5907	1-107-638-11	ELECT	33MF	20%	160V
C5908	1-106-383-00	MYLAR	0.047MF	10%	200V
C5909	1-126-933-11	ELECT	100MF	20%	16V
C5910	1-130-471-00	MYLAR	0.001MF	5%	50V
C5911	1-107-949-11	ELECT	2.2MF	20%	160V
C5912	1-104-999-11	MYLAR	0.1MF	10%	200V
C5913	1-130-471-00	MYLAR	0.001MF	5%	50V
C5914	1-126-933-11	ELECT	100MF	20%	16V
C5916	1-130-491-00	MYLAR	0.047MF	5%	50V
C5917	1-126-925-11	ELECT	470MF	20%	10V
C5918	1-102-244-00	CERAMIC	220PF	10%	500V
C5919	1-136-165-00	MYLAR	0.1MF	5%	50V

REF. NO.	PART NO.	DESCRIPTION				
		<CONNECTOR>				
CN2801*	1-564-506-11	PLUG, CONNECTOR 3P				
CN5901*	1-564-510-11	PLUG, CONNECTOR 7P				
CN5904*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P				
		<DIODE>				
D5901	8-719-911-19	DIODE 1SS119-25				
D5902	8-719-110-88	DIODE RD39ESB2				
D5903	8-719-911-19	DIODE 1SS119-25				
D5904	8-719-110-88	DIODE RD39ESB2				
D5905	8-719-911-19	DIODE 1SS119-25				
D5906	1-249-406-11	CARBON	120	5%	1/4W	
D5907	1-249-406-11	CARBON	120	5%	1/4W	
		<COIL>				
L5901	1-414-187-11	INDUCTOR	47UH			
		<TRANSISTOR>				
Q5901	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5902	8-729-809-26	TRANSISTOR 2SA1606-E				
Q5903	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5904	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q5905	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5906	8-729-809-29	TRANSISTOR 2SC4159-E				
Q5907	8-729-922-37	TRANSISTOR 2SD2144S-UVW				
		<RESISTOR>				
R5901	1-249-401-11	CARBON	47	5%	1/4W	
R5902	1-249-414-11	CARBON	560	5%	1/4W	F
R5903	1-247-734-11	CARBON	39	5%	1/2W	F
R5904	1-249-411-11	CARBON	330	5%	1/4W	
R5905	1-247-831-91	CARBON	1K	5%	1/4W	
R5906	1-247-831-91	CARBON	1K	5%	1/4W	
R5907	1-247-831-91	CARBON	1K	5%	1/4W	
R5908	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5909	1-247-815-91	CARBON	220	5%	1/4W	
R5910	1-249-403-11	CARBON	68	5%	1/4W	
R5911	1-249-439-11	CARBON	68K	5%	1/4W	
R5912	1-249-437-11	CARBON	47K	5%	1/4W	
R5914	1-249-403-11	CARBON	68	5%	1/4W	
R5915	1-249-429-11	CARBON	10K	5%	1/4W	
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W	
R5917	1-249-416-11	CARBON	820	5%	1/4W	
R5918	1-249-429-11	CARBON	10K	5%	1/4W	
R5919	1-249-417-11	CARBON	1K	5%	1/4W	F
R5920	1-249-439-11	CARBON	68K	5%	1/4W	
R5921	1-216-476-11	METAL OXIDE	180	5%	3W	F
R5922	1-249-414-11	CARBON	560	5%	1/4W	
R5923	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5925	1-249-400-11	CARBON	39	5%	1/4W	F
R5927	1-249-416-11	CARBON	820	5%	1/4W	
R5929	1-215-880-00	METAL OXIDE	10	5%	2W	F

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
⚠	1-251-317-12	CAP ASSY, HIGH-VOLTAGE	
⚠	1-419-294-12	COIL, DEGAUSSING	
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-452-032-00	MAGNET,DISC	
	1-452-896-11	COIL, NA ROTATION (RT200)	
	1-529-190-11	SPEAKER (5CM)	
	1-529-563-11	SPEAKER (15X6.5CM)	
⚠	1-569-008-21	ADAPTOR, CONVERSION 2P	
⚠	1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V	
	8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	
	8-453-011-11	NA299-M	
⚠	8-735-057-05	PICTURE TUBE (M68LNH070X)(FOR ME)	
⚠	8-735-057-05	PICTURE TUBE (M68LNH010X)(FOR JE)	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	
		**********	
⚠	1-569-008-21	ADAPTOR, CONVERSION 2P	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-867-874-71	MANUAL, INSTRUCTION (FOR ME)	
	4-074-767-11	MANUAL, INSTRUCTION (FOR JE)	
*	4-029-168-01	BAG, PROTECTION (FOR ME)	
*	4-384-101-21	BAG, PROTECTION (FOR JE)	
*	4-054-319-01	TRAY (FOR ME)	
*	4-074-758-01	TRAY (FOR JE)	
	4-065-210-01	JOINT (FOR ME)	
	4-396-077-01	JOINT (FOR JE)	
*	4-071-224-01	CUSHION (LOWER)(ASSY) (FOR ME)	
*	4-074-761-01	CUSHION (LOWER)(ASSY) (FOR JE)	
*	4-071-225-01	CUSHION (UPPER)(ASSY) (FOR ME)	
*	4-074-760-01	CUSHION (UPPER)(ASSY) (FOR JE)	
*	4-072-935-01	INDIVIDUAL CARTON (FOR ME)	
*	4-074-759-01	INDIVIDUAL CARTON (FOR JE)	
	4-392-003-11	BAND, HOLD	
	4-392-004-11	CLIP	

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		REMOTE COMMANDER	
		**********	
	1-418-038-11	REMOTE COMMANDER (RM-954)	
	9-933-895-01	BATTERY COVER, REMOTE COMMANDER	

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